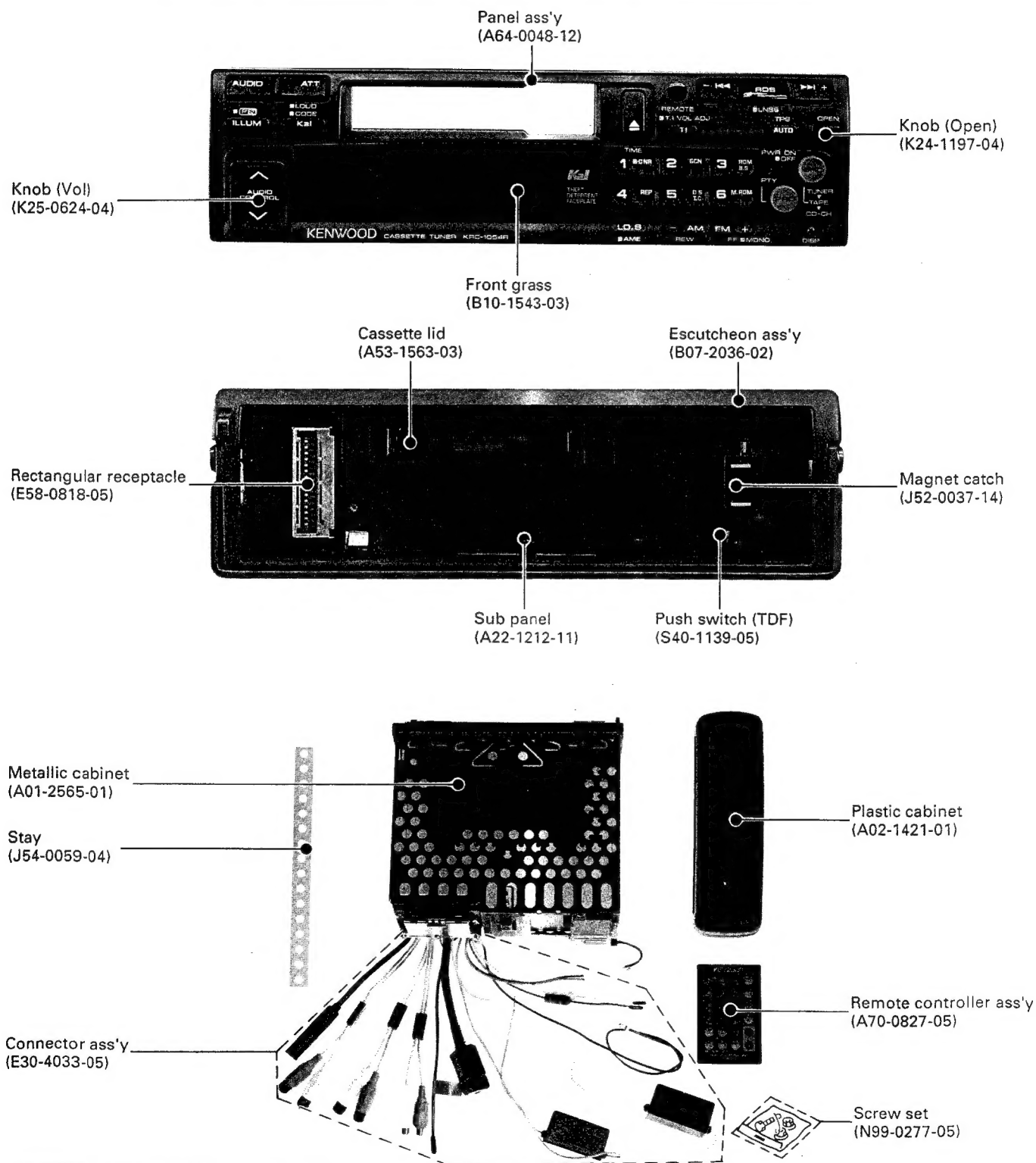


KRC-1054R

SERVICE MANUAL

KENWOOD

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B51-6591-00 (O) 2069



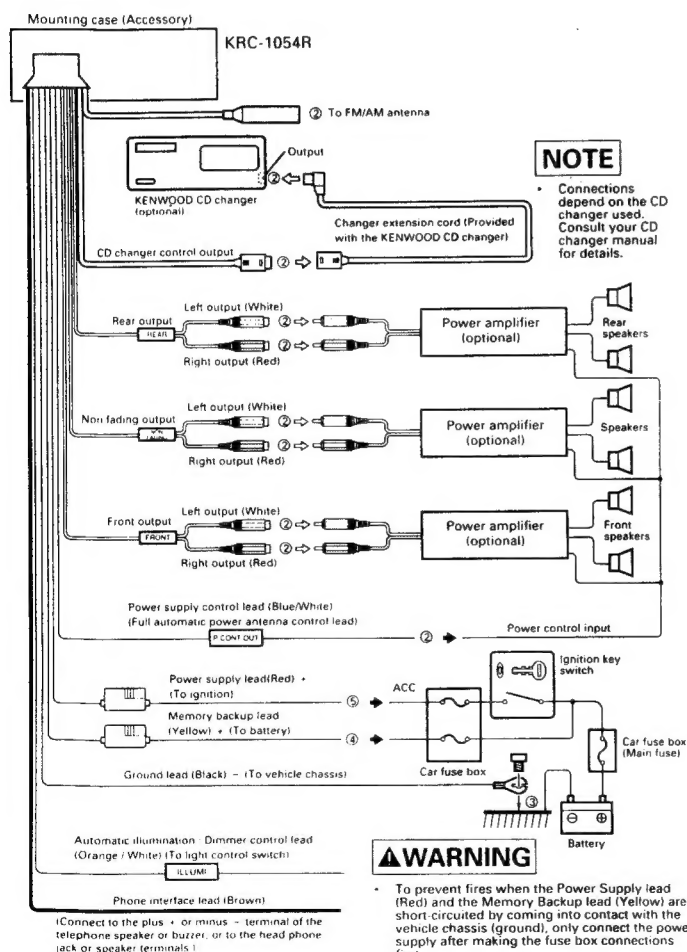
• THEFT DETERRENT FACEPLATE
Model name : TDF-1054R
(Not supplied as service parts.)

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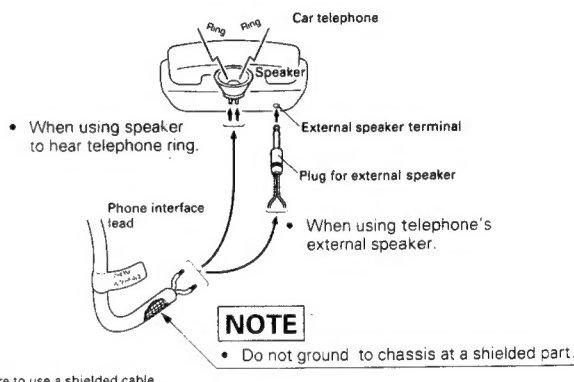
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CONNECTIONS

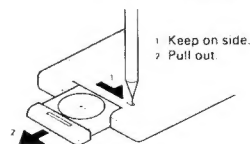


Example of telephone interface connection



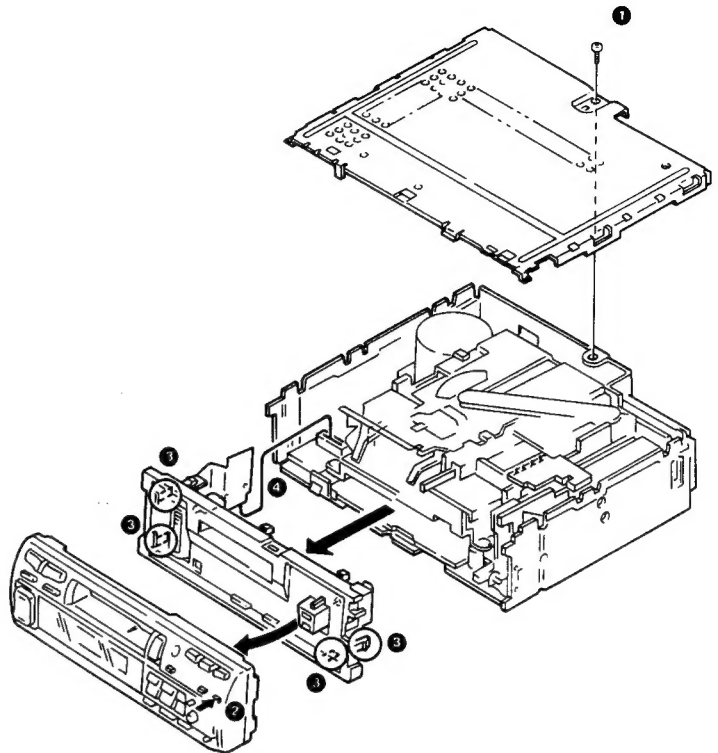
Replacing battery of remote control unit

- The battery life is approximately a half year. When the life has expired, please replace the battery with a new battery.
- The remote control unit uses a lithium battery (CR2025).
- Insert battery following the illustration inside the battery box, taking care not to reverse the + and - polarity.

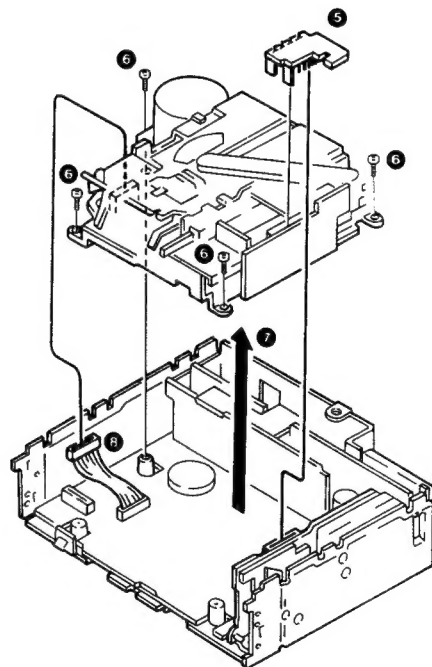


DISASSEMBLY FOR REPAIR

1. Remove the screw (❶) and remove the top panel.
2. While pressing and holding the OPEN button (❷), remove the control unit.
3. Remove the sub panel by pushing the 4 claws (❸) open, and remove the flexible wire (❹).



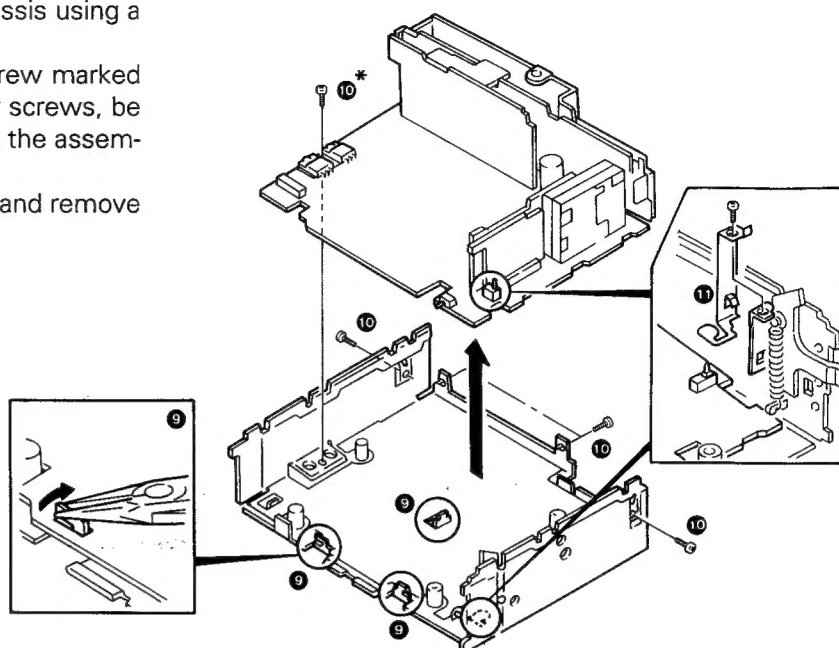
1. Unplug the board connector (❺).
2. Remove the 4 screws (❻), move the cassette mechanism upward to make a space below it (❼), and unplug the connector (❸).



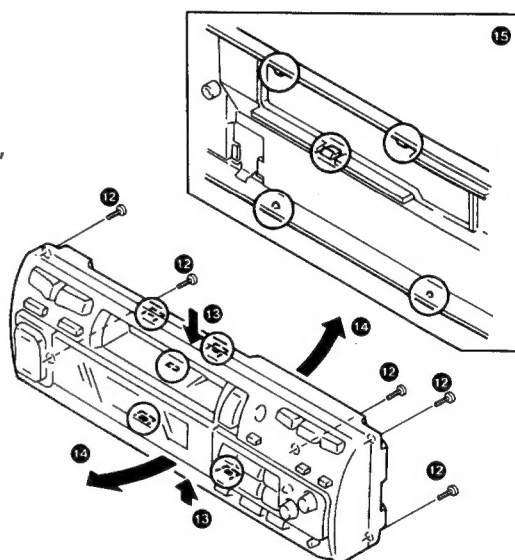
KRC-1054R

DISASSEMBLY FOR REPAIR

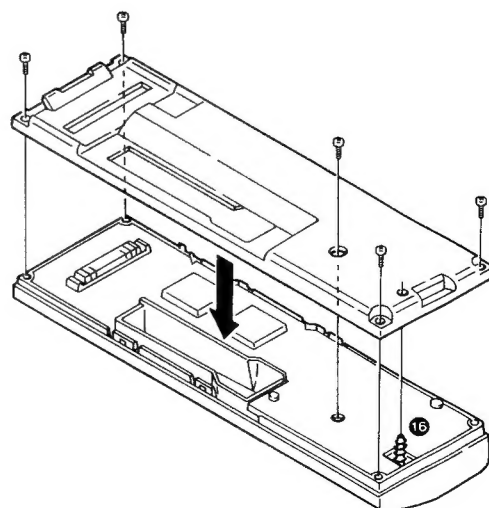
1. Straighten the 3 claws (**9**) on the chassis using a pair of pliers, etc.
2. Remove the 5 screws (**10**). As the screw marked (**10**) * is of a different type from other screws, be careful to use it in the same position at the assembly.
3. Remove the lever and the screw (**11**), and remove the board unit.



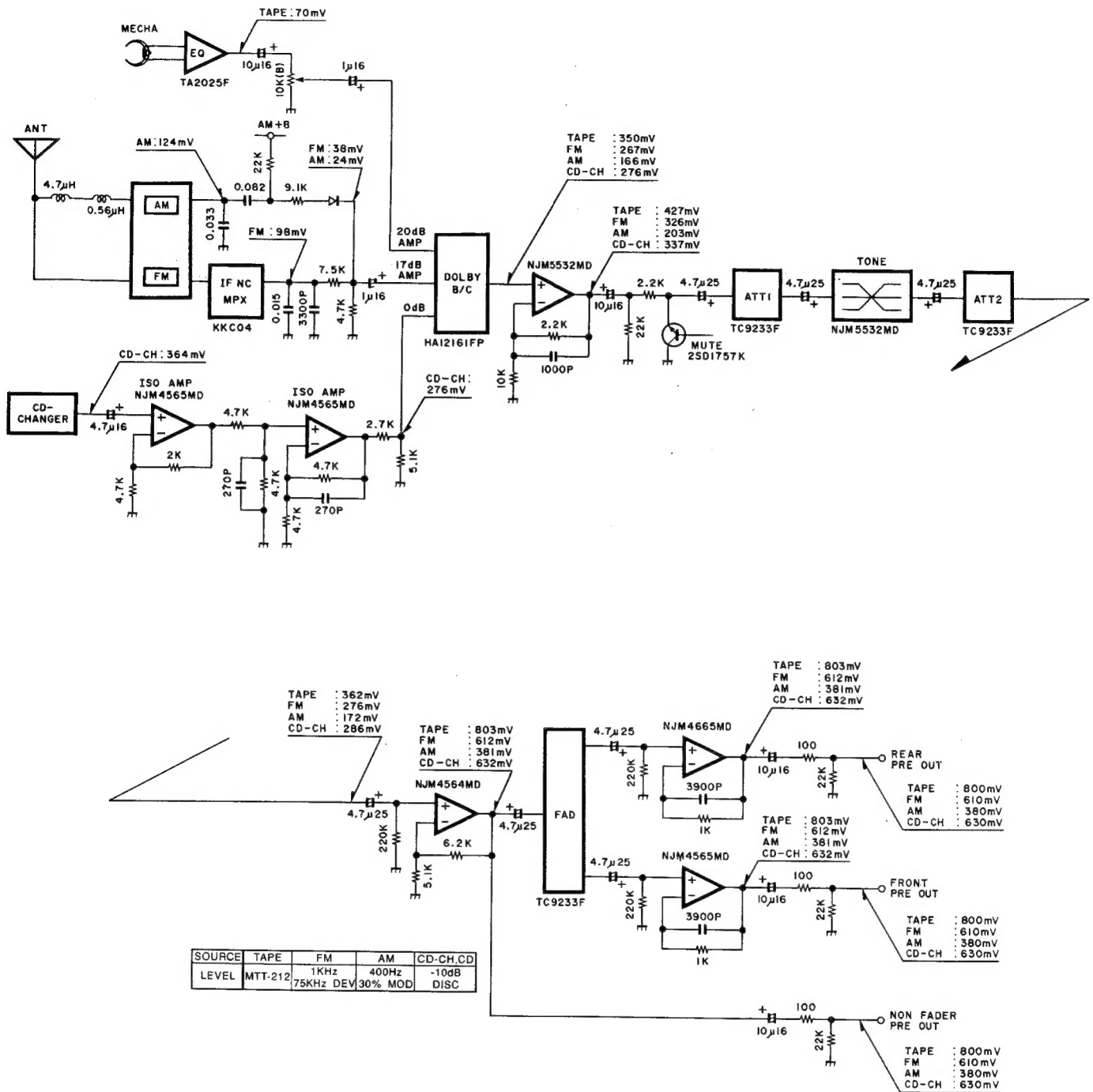
1. Remove the 5 screws (**12**).
2. While pushing the upper and lower sections (**13**) of the front case, open the lower section (**14**).
*Be save to engage the 5 claws (**15**) securely.



1. When assembling the rear case, fit the spring (**16**) into the hole on the case and attach the 5 screws.



BLOCK DIAGRAM



KRC-1054R

CIRCUIT DESCRIPTION

1. Description of Component

1-1. Audio Unit (X09-5042-70)

Ref No.	Semi. name	Use and function	Operation
IC1	TA2025F	Tape EQ amp	Playback equalize, head amplifier.
IC2	HA12161FP	Dolby B.C	Dolby B/C type decoder, source switching.
IC3, 4	NJM4565MD	CD-CH isolation amp	Input buffer for IC4. Isolation amplifier.
IC11	TC9233FK	E-VOL	Sound volume, loudness, tone control, fader balance, attenuator.
IC12	NJM5532MD	Buff amp	VOL2 input buffer amplifier.
IC13~16	NJM4565MD	Tone	Tone control and preamplifier (for center channel).
IC17, 18	NJM4565MD	Pre amp	IC17: Rear preamplifier. IC18: Front preamplifier.
Q1, 2	2SD1757K	EQ mute	Muting of EQ amplifier output.
Q11, 12	2SD1757K	Mute	

1-2. Synthesizer Unit (X14-5002-70)

Ref No.	Semi. name	Use and function	Operation
IC1	LC7218M	PLL IC	PLL for FM/AM tuner.
IC2	TC4W66F	Analog IC	Switches LPF time constant during FM seek.
IC3	NJM5532MD	Buff	Buffer between Dolby IC and E. Volume IC.
IC4	NJM4565MD	T.ADV amp	
IC5	SAA6579T	RDS Demodulator IC	
IC6	LC6543H-4600	RDS sync μ -COM	
IC7	...	Code/security data memory	
IC8	TA7291P	Sub-motor drive IC	
IC9	LC3564QM-10	S-RAM	RAM for RDS data such as AF list.
IC10	TC74HC573AF	Latch	Latch between IC9 and IC16.
IC11	M5237ML	3-terminal-IC	For 8 V AVR.
IC12	PST572HMT	Reset IC	Lo when the main unit is detached.
IC15	SN74HC367ANS	Inverter	For CD-CH data.
IC16	M38067M8D094FP	Master μ -COM	
IC17	75004GB-864-3B4	Mechanism μ -COM	
IC51	KKC04	IF/NC/MPX	IF/NC/MPX for K2I.
IC52	TA75S393F	Comparator	During K2I operation, switches the adjacent interference detection sensitivity by detecting over-modulation.
Q1	2SC2412K	BU detect	
Q2	2SC2412K	Acc detect	
Q3, 4	2SC2413K	IF amp	Q3: IF amplifier for Wide. Q4: IF amplifier for Narrow.
Q5	XDA124EK	LW/MW SW	
Q6	XDC124EK	Lo/Dx SW	
Q7	DTA144EK		
Q8	2SA1428	FM+B SW	
Q9	2SA1428	AM+B SW	
Q10	2SK536	Vt LPF	For AM.
Q12	XDC144EK	IC 2 control	
Q13	2SA1037K		
Q14	2SK536	FM Vt LPF	
Q15	2SC2412K	CRSC SW	
Q16	2SC2412K	CRSC drive	
Q17	2SC2412K	S-meter buff	
Q18	2SA1037K	S-meter drive	
Q19	2SC2412K	AM SD SW	
Q20	XDC144EK	FM mute SW	
Q21	DTA144EK	Narrow SW	In test mode.
Q22	XDC144EK	K2I/wide SW	
Q23	XDC144EK	T.ADV circuit gain SW	Switches the gain for playback and fast winding.
Q24	XDC144EK	T.ADV circuit time constant SW	Switches the time constant for playback and fast winding.

CIRCUIT DESCRIPTION

Ref No.	Semi. name	Use and function	Operation
Q25	XDA124EK	EQ mute inverter	
Q26	2SC2412K	T.ADV circuit inverter	
Q27	DTC144EK	MONO/ST SW	
Q28	DTB123YK	+B SW for sync μ -COM	
Q29	2SC2412K	AVR SW for sub motor	For IC8.
Q30	2SA1408 (O)	AVR drive for sub motor	For IC8.
Q31	XDC124EK	KICK SW	For IC8.
Q32	XDC124EK	S-RAM CE1 control	Inhibits read from or write to S-RAM while power is OFF.
Q33	2SB1370F8	8V AVR SW	Audio circuitry.
Q34	DTA114EK	8V AVR drive	Audio circuitry.
Q35	2SB1370F8	ILLUM AVR SW	
Q36	2SC2412K	ILLUM AVR drive	
Q37	DTA114EK	ILLUM AVR control	
Q38	DTC144EK	ILLUM AVR control	
Q39	2SB1370F8	5V AVR SW	Logic circuitry of μ -COM, etc.
Q40	2SC2412K	5V AVR control	Logic circuitry of μ -COM, etc.
Q41	DTB123YK	Power on 5V SW	
Q42	XDC144EK	Power on 5V drive	For the moment the power is switched ON.
Q43	2SA1036K	Remove 5V SW	
Q44	2SC2412K	Remove 5V drive	
Q45~47	2SA1037K	E.VOL. data shifter	
Q51	XDC144EK	Small in inverter	
Q52, 54	XDA124EK	TA/RA/CH SW	
Q53, 55	XDA124EK	<input type="checkbox"/> off/B/C SW	
Q56	XDC124EK	PWR on 5V SW	Controls IC15.
Q57	XDC144EK	DSI indicator INH.	Inhibits DSI indicator while the panel is attached.
Q58	2SC2412K	DSI indicator SW	
Q59	2SA1037K	Mute drive	
Q60	XDC124EK	Mute drive	
Q61	XDA124EK	Mute drive	
Q62	2SA1428	Motor +B SW	
Q63	DTC114EK	Motor +B drive	
Q64, 65	2SC2412K	Reel pulse buff	
Q66	2SA1428	Amver +B SW	
Q67	2SA1428	Green +B SW	
Q68	DTD123YK	Dimmer SW	
Q69	DTD123YK	Green dimmer SW	For the case in which SMALL is input.
Q70	XDC144EK	Amver +B drive	
Q71	XDC144EK	Green +B drive	
Q72	DTA144EK	Green dimmer drive	
Q73	2SC2411K	PAN 5V SW	For the case in which the panel is attached.
Q74	DTA144EK	PAN 5V drive	For the case in which the panel is attached.
Q75	XDC124EK	PAN 5V control	For the case in which the panel is attached.
Q76	DTA144EK	Manual reset SW	
Q77	XDC144EK	Manual reset SW	
Q78	XDC124EK	Current detect reset SW	
Q79	2SC2412K	EX. reset SW	
Q80	2SC2411K	LCD lamp SW	
Q502	DTA144EK	AFC SW	
Q503	2SC2412K	AFC SW	
Q505	2SC2412K	CRSC SW	

CIRCUIT DESCRIPTION

1-3. Switch Unit (X25-7042-70)

Ref No.	Semi. name	Use and function	Operation
IC1	75004GB-863-3B4	Panel μ -COM	Control of display, keys and remote control, communications with Master μ -COM.
IC2	PST572DMT	Reset IC	Resets Panel μ -COM.
IC3	RS-21	Remote control sensor	
IC4, 5	LC7582E	LCD driver	
Q1	DTA143XK	INH driver	Drives the LCD driver INH signal and remote control sensor power.
Q2	DTC144EK XDC144EK	INH driver SW	

1-4. Daughter Unit (X89-2002-70)

Ref No.	Semi. name	Use and function	Operation
IC1, 2	NJM4565D	EX-mute buff	
IC3	TA79L005P	3-terminal regulator	Negative output (-5 V).
IC4	TA78L005AP	3-terminal regulator	Positive output (+5 V).
Q1	DTA124EK	P.CON out driver	Drive and protection of P.CON.
Q2	2SA1037K	P.CON out driver	Drive and protection of P.CON.
Q3	2SB1277	P.CON out driver	Drive and protection of P.CON.
Q4	DTC114EK	P.CON driver SW	
Q5, 7	2SD1266BD	CK-50 driver	
Q6, 8	2SC2412K	CK-50 driver	
Q9	2SC2412K	EX.mute driver SW	

CIRCUIT DESCRIPTION

2. KENWOOD INTELLIGENT 2 IF (K2I)**2-1. K2I IF band switch**

To take proper operation according to the radio wave condition of each country, the K2I performs automatic switching of IF band by setting the IF filter bandwidth to Wide or Narrow based on the information from three detector circuits.

The three detector circuits refer to:

1. 100 kHz beat detector (100 kHz adjacent interference detection)
2. Deviation detector (Overmodulation detection)
3. Weak strength detector (Field strength detection)

By setting the IF bandwidth automatically according to the logic rule, a high-sensitivity with low noise and optimum state in any country is implemented.

2-2. Newly developed narrow-band IF filter

The previously used IF filter could not eliminate the adjacent interference within 100 kHz completely.

The newly developed IF filter has a very narrow bandwidth characteristic compared to the previous filter, and also allows to obtain stable tuning frequency and selectivity characteristics.

To make low distortion and high separation possible even with the narrow-band filter, new circuitry is used together with it.

2-3. Description of Data of K2I**2 signal selectivity**

While the selectivity within ± 100 kHz with the previous ceramic filter was only about 2 dB, A selectivity of 15 to 20 dB can be achieved by using the newly developed narrow-band ceramic filter on the Narrow side. (fig. 1)

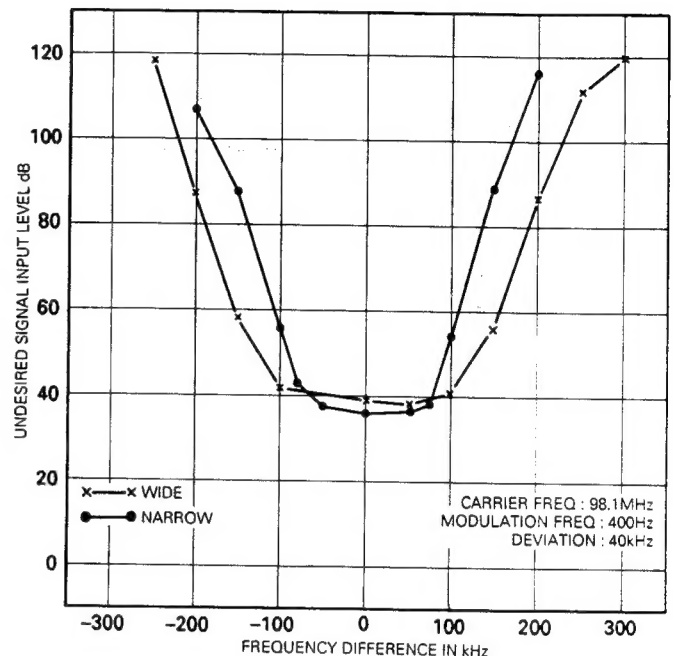


fig. 1 Notice the high selectivity (in Narrow mode) within ± 100 kHz.

CIRCUIT DESCRIPTION

3. Programme Type Codes

The PTY mode allows to search the programme type the user desired based on the broadcast content data transmitted by each network. This table shows the data on the programme types. However, at present, many radio stations do not handle this service and the areas where this function is available and the pro-

gramme types are limited.

Data in the last column of the table, No. 31 (Alarm) is transmitted with emergency broadcast. This programme type cannot be selected as one of the PTY programme types.

3-1

Code	Program type	English	Francais	Deutsch	
1	News	NEWS	INFOS	NEWS	S P E E C H
2	Current Affairs	AFFAIRS	MAGAZINE	POLITIK	
3	Information	INFO	SERVICES	SPEZWORD	
4	Sport	SPORT	SPORT	SPORT	
5	Education	EDUCATE	EDUCATIF	LERNEN	
6	Drama	DRAMA	FICTION	HOER+LIT	
7	Culture	CULTURE	CULTURE	KULTUR	
8	Science	SCIENCE	SCIENCES	WISSEN	
9	Varied	VARIED	DIVERS	UNTEAR	
10	Pop Music	POP M	M POP	POP	M U S I C
11	Rock Music	ROCK M	M ROCK	ROCK	
12	M. O. R Music	M. O. R M	M VARIEE	U-MUSIC	
13	Light Classical	LIGHT M	M CL LEG	L-KLASS	
14	Serious Classical	CLASSICS	M CL SER	E-KLASS	
15	Other Music	OTHER M	AUTRE M	SPEZ MUS	
31	Alarm	ALARM	ALERTE	ALARM	

CIRCUIT DESCRIPTION

3-2. Definition of the terms used to denote Programme Type**a. Speech-based categories**

1. News
Short accounts of facts, events and publicly expressed views, reportage and actuality.
2. Current affairs
Topical programme expanding or enlarging upon the news, generally in different presentation style or concept, including documentary debate, or analysis.
3. Information
Programme whose purpose is to impart advice in the widest sense, including meteorological reports and forecasts, consumer affairs, medical help, etc.
4. Sport
Programme concerned with any aspect of sport.
5. Education
Programme intended primarily to educate, of which the formal element is fundamental.
6. Drama
All radio plays and serials.
7. Culture
Programmes concerned with any aspect of national or regional culture, including religious affairs, philosophy, social science, language, theatre, etc.
8. Science
Programmes about the natural sciences and technology.
9. Varied
Used for mainly speech-based programmes usually of light-entertainment nature, not covered by above categories. Examples are : quizzes, panel games, personality interviews, comedy and satire.

b. Music based categories

10. Pop
Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.
11. Rock
Contemporary modern music, usually written and performed by young musicians.
12. M.O.R.
(Middle of the Road Music). Common term to describe music considered to be "easy-listening", as opposed to Pop, Rock or Classical. Music in this category is often but not always, vocal, and usually of short duration (<5min.).
13. Light classics
Classical Musical for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.
14. Serious classics
Performances of major orchestral works, symphonies, chamber music etc., and including Grand Opera.
15. Other music
Musical styles not fitting into any of the above categories. Particularly used for specialist music, of which Jazz, Rhythm & Blues, Folk, Country, and Reggae are examples.

c. Other

- 16~30. Not yet assigned.
31. Alarm
Emergency announcement made under exceptional circumstances to give warning of events causing danger of a general nature.

Note: These definitions can slightly differ between various language versions.

CIRCUIT DESCRIPTION

3-3. Operation method

1. The PTY mode is initiated at press of the PROG key.
(The PTY mode is canceled at the next press of the PROG key).
2. The language can be displayed by holding the CLK key depressed for 1 second.
Languages of three countries (English, French, German) can be recalled at press of preset keys 1 to 3. The selected language can be established at press of the CLK key. After this, go to step 3) below.
3. Programme type selection: keys 1 to 6, FM key, AM key.
4. PTY search starts at press of **◀▶**.
5. A station with the selected programme type is tuned (The PTY mode is cancelled in 10 seconds after tuning).
(Within 10 seconds)
6. PTY search restarts at press of **◀▶**.
(In case a station with the selected programme type cannot be searched)
7. The seek operation ends after one cycle (the PTY mode is cancelled).

3-4. Display in PTY mode

1. "NEWS" - Last programme type display.
PTY dots ON.
2. "ENGLISH" - Last language display.
PTY dots ON.
- 4, 6. "NEWS" - Programme type display.
PTY dots ON.
5. "BBC KENT" - Tuned station PS display.
PTY dots blinking.
7. "NO PTY" (2 seconds)
PTY dots OFF.

3-5. EON search method

When there are stations with the selected programme type is found in the stored EON data, they are searched in the order they are stored in the SRAM. If the **◀▶** key is pressed again within 10 seconds after tuning a station with the selected programme type, the next network is searched. After searching based on the EON data has completed, the PTY seek operation occurs,

- The PI code of the last channel is not searched even when it exists in the data.
- After the seek operation is started, the PI code is confirmed unconditionally every time SD is detected (including stations tuned in EON search).
- The language can be selected from English, French and German.

3-6. Modification of TI Search function in '93 model

- Auto TI search is not executed with the TUNER source.

But, the TI dots blink at the timing of search. (It is executed like before with other sources.)

Reason: To prevent TI search from occurring in case the station tuned by search in the PTY mode is not a TP station.

3-7. Modification of specifications of SDK model with timer function in '93 model

- Auto SK search is not executed with the TUNER source. However, the SDK dots blink at the timing of search.

(It is executed like before with other sources.)

Reason: To prevent auto SK search from occurring in case the station tuned by the timer function is not a SK station.

CIRCUIT DESCRIPTION

4. Security Data Read/Write Specifications

The security data memory is read or written at timings (1) ~ (5) described in the following.

4-1. Code entry method

1. After turning power ON, press and hold the K2I key for more than 3 seconds.
2. Preset keys **1** ~ **4**

		CODE	----
1	.....	CODE	0--- 0
1	.....	CODE	1--- 0
2	.....	CODE	10-- 0
2	.....	CODE	11-- 0
2	.....	CODE	12-- 0
3	.....	CODE	120- 0
3	.....	CODE	121- 0
3	.....	CODE	122- 0
3	.....	CODE	123- 0
3	.....	CODE	124- 0
4	.....	CODE	1240 0

End of entry until the 4th digit.

3. Press and hold the K2I key for more than 3 seconds....End of code entry.

- The security mode is turned ON if the code is OK (1)
- Hereafter, the security mode can be turned ON/OFF by holding the K2I key depressed for more than 3 seconds (2)

4-2. Code request

In the security mode, the code request is issued when returning from BACK UP OFF or after reset ..(3)

1. Power ON

		CODE	0
		----	0 (Displayed for 1 sec.) (Input restored)
1	.....	0---	0 (1 sec. after)
1	.....	1---	0
2	.....	10--	0
2	.....	11--	0
2	.....	12--	0
3	.....	120-	0
3	.....	121-	0
3	.....	122-	0
3	.....	123-	0
3	.....	124-	0
4	.....	1240	0

2. After the entry until the 4th digit, press and hold the K2I key for more than 3 seconds to establish.

- When the code is OK....Power ON (4)
- Second time and after : When the code is No Good WAIT (Entry is head for 5 min.) (5)
5 minutes later....---- (Entry possible)

Hereafter, the hold time after the entered code is No Good changes as shown below.

- 1st try0
- 2nd try0
- 3rd try5 minutes
- 4th try1 hour
- 5th try and after24 hours
(The try count is displayed on the right.)

- (1) The security mode is permitted by the entry of the correct code.
Security mode ON write.
- (2) Security mode ON/OFF write.
- (3) Security mode data read after reset or when the set is attached (Security code, No Good try count, other data).
- (4) 0 is written in No Good try count.
- (5) The No Good try count is incremented by +1 and written.

CIRCUIT DESCRIPTION

5. CK-50 Plunger Specifications

5-1. Statuses which cause unlocking

1. Unlocking occurs when ACC is switched from ON to OFF while the panel is attached.
2. Unlocking occurs when the lever is moved upward while the panel is attached and ACC is ON.
3. Unlocking occurs when the panel is attached while ACC is OFF.

5-2. Statuses which do not cause unlocking

1. While the panel is detached.
2. For 10 seconds after the set is installed or reset.
3. For 10 seconds after the completion of unlocking.

5-3. Reason of item 2 of "Status which do not cause unlocking"

When the microcomputer is reset while the panel is

attached, the microcomputer program starts assuming that the panel is not attached, so unlocking would occur because it detects that the panel is attached. If this operation takes place every 10 seconds, the plunger would be destroyed due to excessive unlocking.

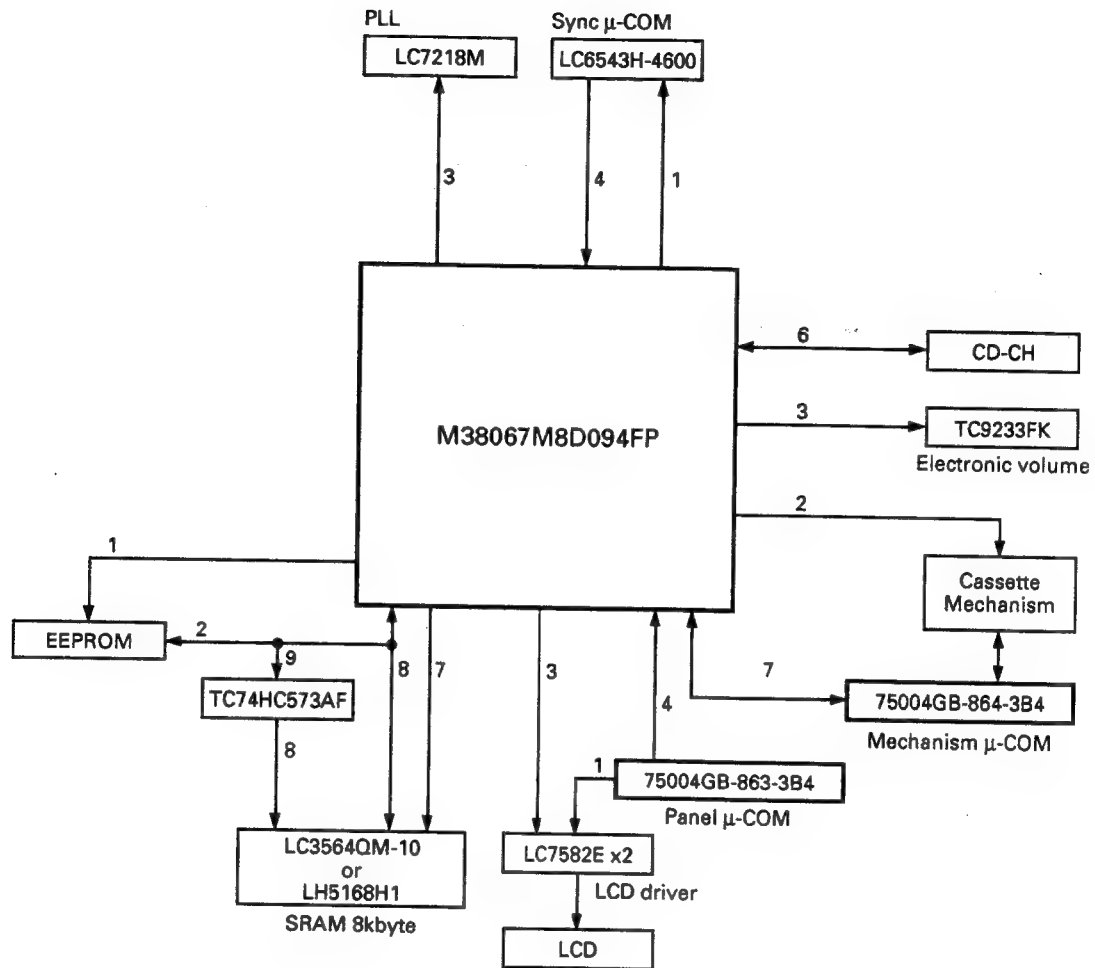
Similarly, if the set is detached in 10 seconds after moving the detaching lever up then it is attached immediately and this operation is repeated, the plunger would be damaged because the microcomputer is reset every time the set is attached.

5-4. Unlocking timing

Unlocking shall continue for 10 seconds, and a hold period of 10 seconds must be provided after the completion of unlocking.

CIRCUIT DESCRIPTION

6. Block Diagram of Microcomputers and Surroundings



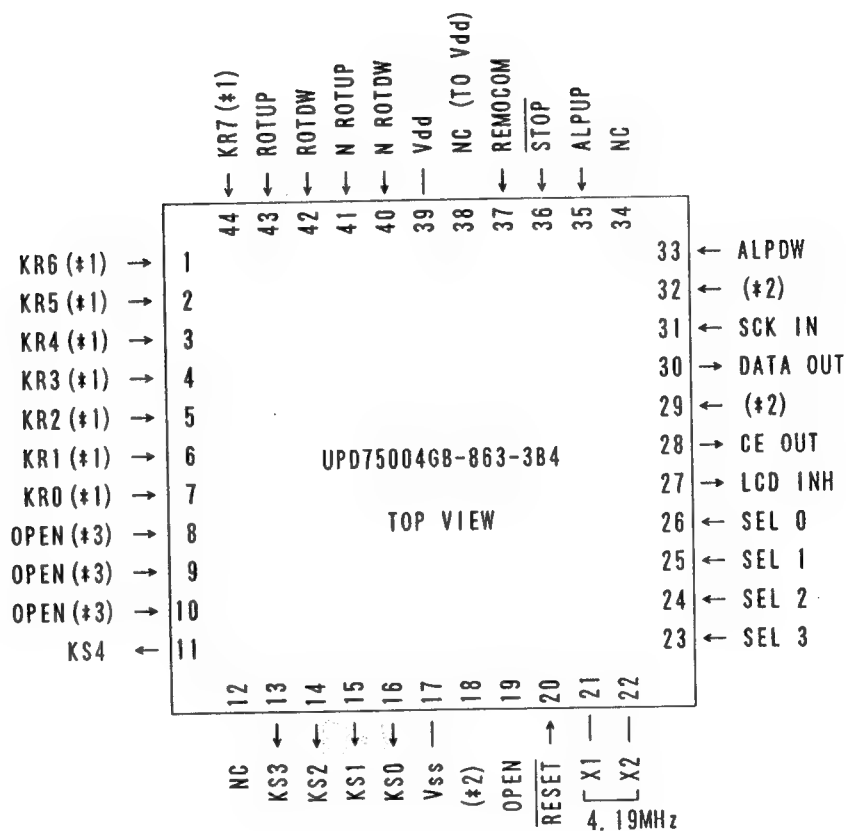
7. IC1: 75004GB-863-3B4 (X25-7042-70)

Panel Microcomputer

Summary

This microcomputer is mounted in the panel of the '92 model with detachable panel specifications, and used to send the key data, remote control data and rotary control data inputs to the System Controller as command data. The System Controller operates based on the input commands.

7-1. Pin connection



#1: Software pull up
 #2: Vss or Vdd
 #3: Mask option pull up

CIRCUIT DESCRIPTION

7-2. Terminal Description (All pin numbers refer to flat package types.)

Pin No.	Pin Name	I/O	Description
1~7	KR6~KR0	I	Key Return 6~0 (Active Low). Internally pulled up. Programme selection.
8, 9		I	Not used. Open. Internally pulled up. Mask option.
10		I	Not used. Open. Internally pulled up. Mask option.
11	KS4	O	Key Scan 4 (Active Low). Open drain terminal. (Diode is not necessary).
12	NC	-	No Connection. Open.
13~16	KS3~KS0	O	Key Scan 3~0 (Active Low). Open drain terminal. (Diode is not necessary).
17	Vss	-	μ -COM earth GND.
18	XT1	-	Not used. Connected to Vdd or Vss.
19	XT2	-	Not used. Open.
20	RESET	I	Reset input.
21, 22	X1, X2	-	Ceramic oscillator connection terminal. (4.19 MHz)
23~26	SEL3~SEL0	I	Model selection check terminal. (Selected according to pull-up/pull-down). * Refer to terminal connection diagram.
27	LCDINH	O	LCD driver inhibit terminal.
28	P_CE	O	Key data send request.
29		I	Not used. Connected to Vdd or Vss.
30	P_DATA	O	Key data line.
31	P_CLK	I	Key data clock. (Max. 1 MHz)
32		I	Not used. Connected to Vdd or Vss.
33	NARTDW	I	Input to phase-type, double-edge rotary encoder manufactured by Alps. (Down)
34	NC	-	No Connection. Open.
35	NARTUP	I	Input to phase-type, double-edge rotary encoder manufactured by Alps. (Up)
36	P_STOP	I	Stop request (oscillation stop).
37	REMO	I	Remote control data input.
38	NC	-	Vdd.
39	Vdd	-	Power supply terminal, 5 V.
40	NRTDW	I	Input to phase-type, single-edge rotary encoder manufactured by Alps. (Down)
41	NRTUP	I	Input to phase-type, single-edge rotary encoder manufactured by Alps. (Up)
42	RTDW	I	Input to rotation direction pulse input type rotary encoder manufactured by Matsushita. (Down)
43	RTUP	I	Input to rotation direction pulse input type rotary encoder manufactured by Matsushita. (Up)
44	KR7	I	Key Return 7 (Active Low). Internally pulled up. Programme selection.

NOTE : All of the unused rotary encoder inputs must be pulled down to Vss.

CIRCUIT DESCRIPTION

7-3. Terminals required for control

(1) System controller

Name	I/O	Contents
PANCON	O	Panel power supply terminal. When the panel is attached, supplies power to the panel for initial start-up of the Panel μ -COM. Interlocked with the RESET terminal of the Panel μ -COM.
PANIN	I	Terminal for detecting that the panel is attached on the head unit. PANCON must be turned OFF while the panel is not attached.
P_STOP	O	Stop request to Panel μ -COM. When power or Acc is turned OFF, sets the Panel μ -COM to the stop status in order to reduce the Back Up current. As the Panel μ -COM inhibits the LCD driver at the positive going of this terminal, the LCD display disappears for 1 second when this output is dropped for a moment. Therefore, to cope with possible terminal contact failure, this terminal is provided with a time constant of 20 to 30 ms in the hardware. In case the output from this terminal is dropped, the System Controller should take this time constant in consideration and wait to ensure before restarting.
P_CE	I	Key data send request from Panel μ -COM.
P_CLK	O	Clock output to Panel μ -COM.
P_DATA	I	Key data input from Panel μ -COM.

(2) Panel μ -COM

Name	I/O	Contents
RESET	I	Every time the System Controller turns PANCON output ON, this terminal is reset and the initial start of Panel μ -COM occurs. At this time, the Panel μ -COM checks that the EJECT key is ON and sends test mode codes.
STOP	I	Stop request input, which sets the Panel μ -COM immediately in the stop status. Even in stop status, key codes of certain keys continue to be transferred.
P_CE	O	Key data send request to System Controller.
P_CLK	I	Clock from System Controller.
P_DATA	O	Key data output to System Controller.

CIRCUIT DESCRIPTION

7-4. Key matrix

- Key matrix and specifications of microcomputer for detachable panel
- * KRC-1054R/KRC-954R

KEY RETURN KEY SCAN	KS4 P50 (11pin)	KS3 P43 (13pin)	KS2 P42 (14pin)	KS1 P41 (15pin)	KS0 P40 (16pin)
KR0 (with built-in pull-up R) P60 (7pin)	(SORCE) 90H	(AUDIO) ★ 88H	AM ★ 80H	① (AUTO) ★ 78H	PRESET 1 ★ KEY CORD : 70H
KR1 (with built-in pull-up R) P61 (6pin)	EJECT 91H		FM ★ 81H	② (LOCAL) ★ A-ME 79H	PRESET 2 ★ 71H
KR2 (with built-in pull-up R) P62 (5pin)		VOL ATT ★ ■ LOUD 8AH	DOWN ★ (Multiple 82H presses of CLK)	③ (COCK) ★ (Multiple 7AH presses of CLK)	PRESET 3 ★ 72H
KR3 (with built-in pull-up R) P63 (4pin)	PROG 93H	VOL UP ★ *4 (Multiple 8BH presses of CLK)	UP ★ (Multiple presses of CLK)	④ (TI) ★ 7BH	PRESET 4 ★ 73H
KR4 (with built-in pull-up R) P70 (3pin)		VOL DOWN ★ 4 (Multiple 8CH press of VOL)	PRESET 6 ★ 84H	⑤ RDS ★ 7CH	PRESET 5 ★ *1 74H
KR5 (with built-in pull-up R) P71 (2pin)		■ NEGA/POSI ★ ILL 8DH	■ CODE ★ K2I 85H		
KR6 (with built-in pull-up R) P72 (1pin)					
KR7 (with built-in pull-up R) P73 (4pin)					

All pin numbers refer to flat package pins.

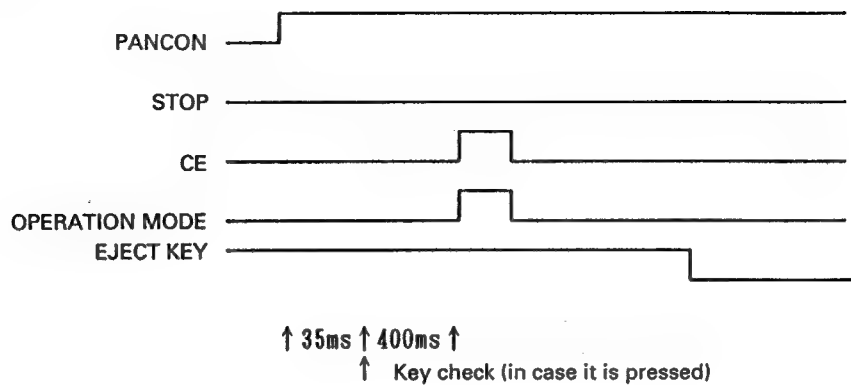
- * Even while the STOP command to the Panel μ -COM is in effect, when one of the 8 keys assigned to KS4 is pressed to ON, the stop status is released and the key code is sent. This makes the System Controller possible to return from the Power OFF status.
- * As for the remote control codes, when a valid custom code is input, the key code is transferred provided that the key code is from 00H to 1FH.
- * With the KRC-927, the following points differ from the table shown above.

ILL (■ NEGA/POSI)	→ ILL only.	KS3-KR5
ATT (■ LOUD)	→ ATT only.	KS3-KR2
TI	→ LOUD.	KS1-KR3
RDS	→ NEGA/POSI.	KS1-KR4
K2I (■ CODE)	→ K2I only.	KS2-KR5

CIRCUIT DESCRIPTION

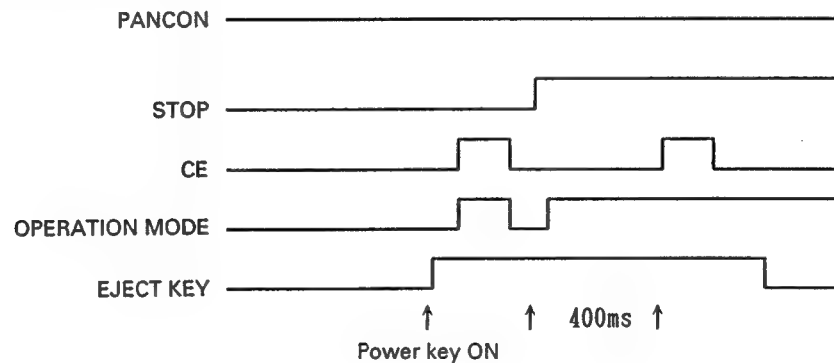
7-5. Timing chart

(1) Reset by RESET switch on the panel



When the Panel μ -COM is reset, Whether the TAPE (Source) or EJECT key is pressed ON or not is checked in the initial processing, and "51H" (TAPE) and "52H" (TAPE) are sent if the key is pressed, and "50H" is sent if it is not.

(2) POWER key pressed ON in stop status



When the POWER key is pressed ON, one of three kinds of key codes shown below are sent. The System Controller executes the power ON operation according to the key code.

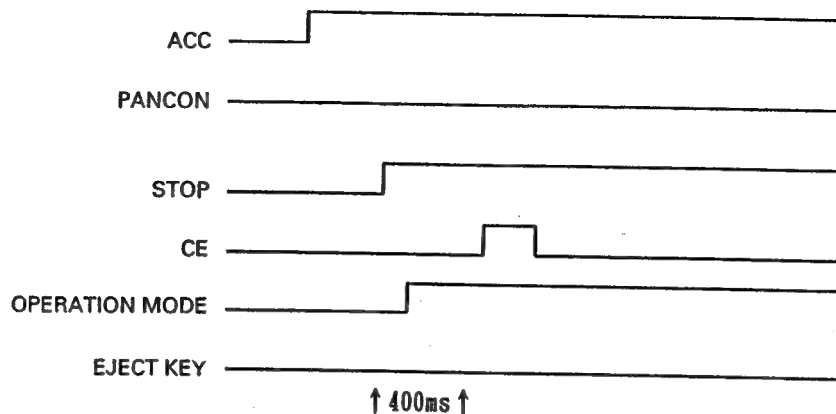
- I. In case 1 + 5 are also pressed simultaneously
: "61H" Destination change
- II. In case 2 + 3 are also pressed simultaneously
: "62H" Not used

- III. In case 1 + 3 are also pressed simultaneously
: "63H" DSI
- IV. In case TONE is pressed simultaneously
: "64H" Security
- V. Other status than I, II, III and IV above
: "60H"

* As the same processing as (3) is executed with the timings marked *, the System Controller should ignore them.

CIRCUIT DESCRIPTION

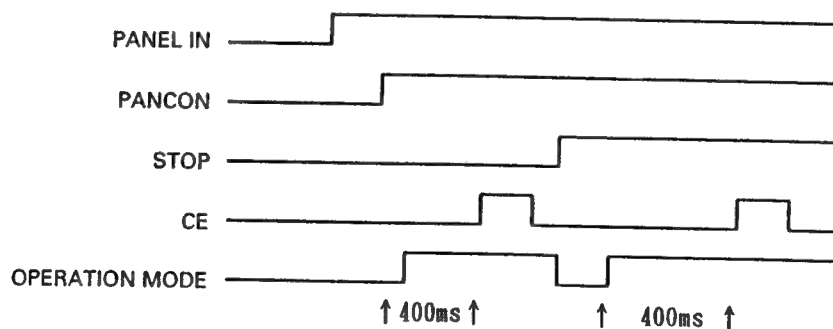
- (3) When Acc is turned ON in case the last power OFF was executed by turning Acc OFF



When the POWER key is pressed ON, one of three kinds of key codes shown below are sent. The System Controller executes the power ON operation according to the key code.

- I. In case 1 + 5 are also pressed simultaneously : "61H" Destination change
- II. In case 2 + 3 are also pressed simultaneously : "62H" Not used
- III. In case 1 + 3 are also pressed simultaneously : "63H" DSI
- IV. In case TONE is pressed simultaneously : "64H" Security
- V. Other status than I, II, III and IV above : "60H"

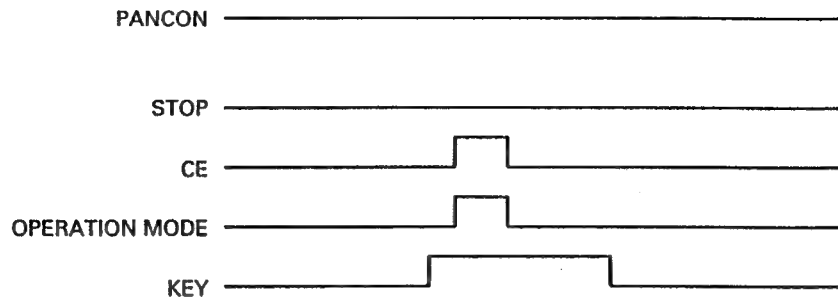
- (4) When the panel is attached in case the last power OFF was executed by detaching the panel In this case, the last power ON status is stored in memory and the unit starts with TUNER ON.



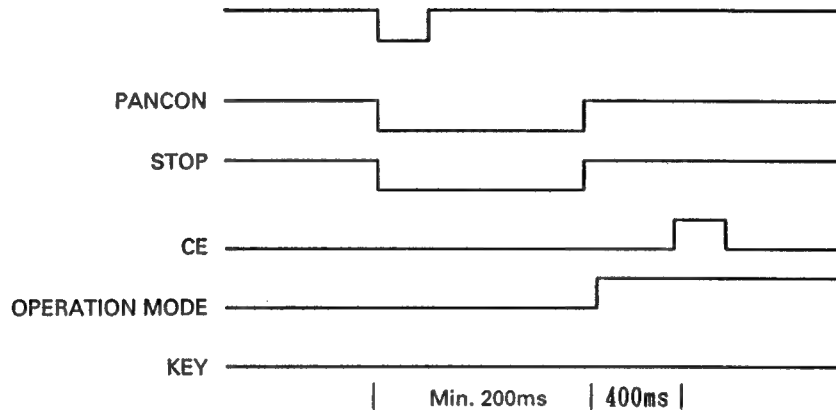
As the Panel μ -COM cannot judge where a start is caused by resetting the unit or attaching the panel, it executes both processing (1) and (3). As a result, the System Controller executes processing (1) (ignoring key commands) first, then executes processing (3) (ignoring key commands).

CIRCUIT DESCRIPTION

- (5) When the EJECT, TUNER, TAPE or CD-CH key is pressed in stop status



- (6) Timing in case of momentary power failure



In case of momentary power failure, because the panel power and the STOP terminal are provided with time constants, the status should be held for 200 ms or more after PANCON or STOP is stopped.

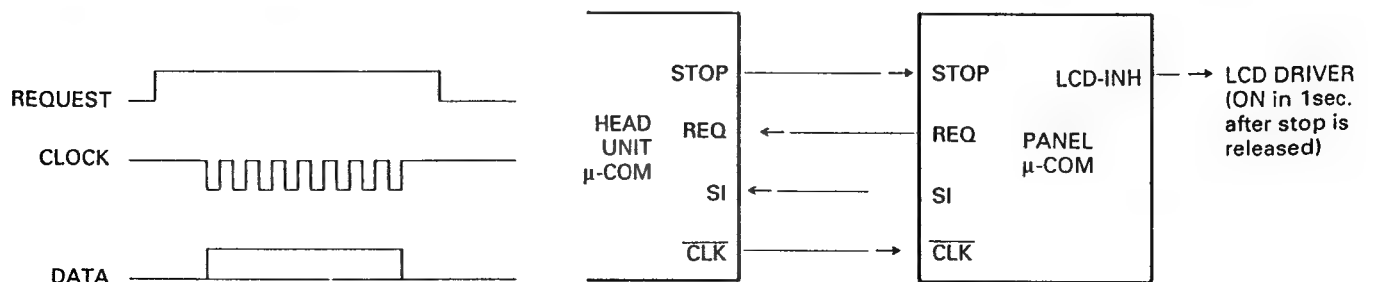
7-6. Communication method (3-wire, unidirectional)

The head unit outputs CLOCK (8 bits) at the positive going of REQUEST from the Panel μ -COM. The data the head unit receives at this time becomes the key data.

If the Panel μ -COM does not receive the CLOCK input within 100 ms after it rises REQUEST, it identifies a communication error, turns REQUEST OFF and restart the communication.

While STOP is Low, this restart operation is tried up to 5 times per key input, and after the 5th try the panel returns in the stop status.

The Panel μ -COM uses the serial ports. Data is input at the positive going of CLOCK.

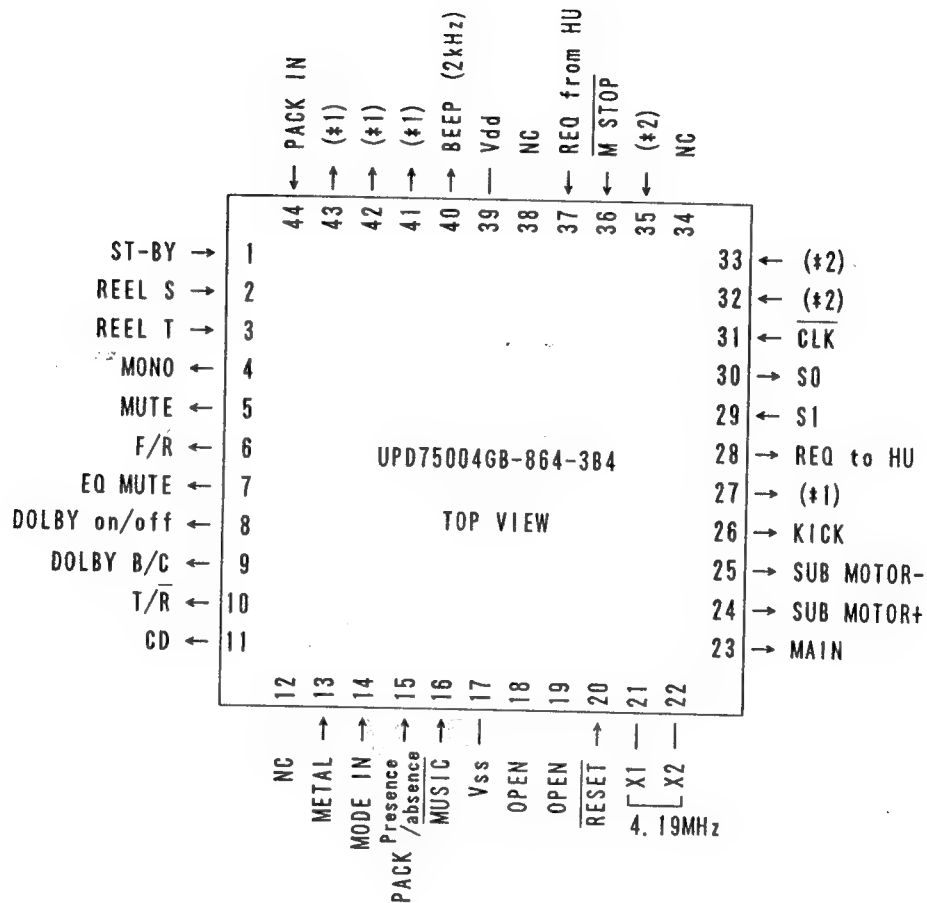


CIRCUIT DESCRIPTION

8. IC17 : 75004GB-864-3B4 (X14-5002-70)

Cassette Mechanism Microcomputer

8-1. Pin connection



#1: Pull up or pull down

#2: Vss or Vdd

CIRCUIT DESCRIPTION

8-2. Terminal Description (All pin numbers refer to flat package types.)

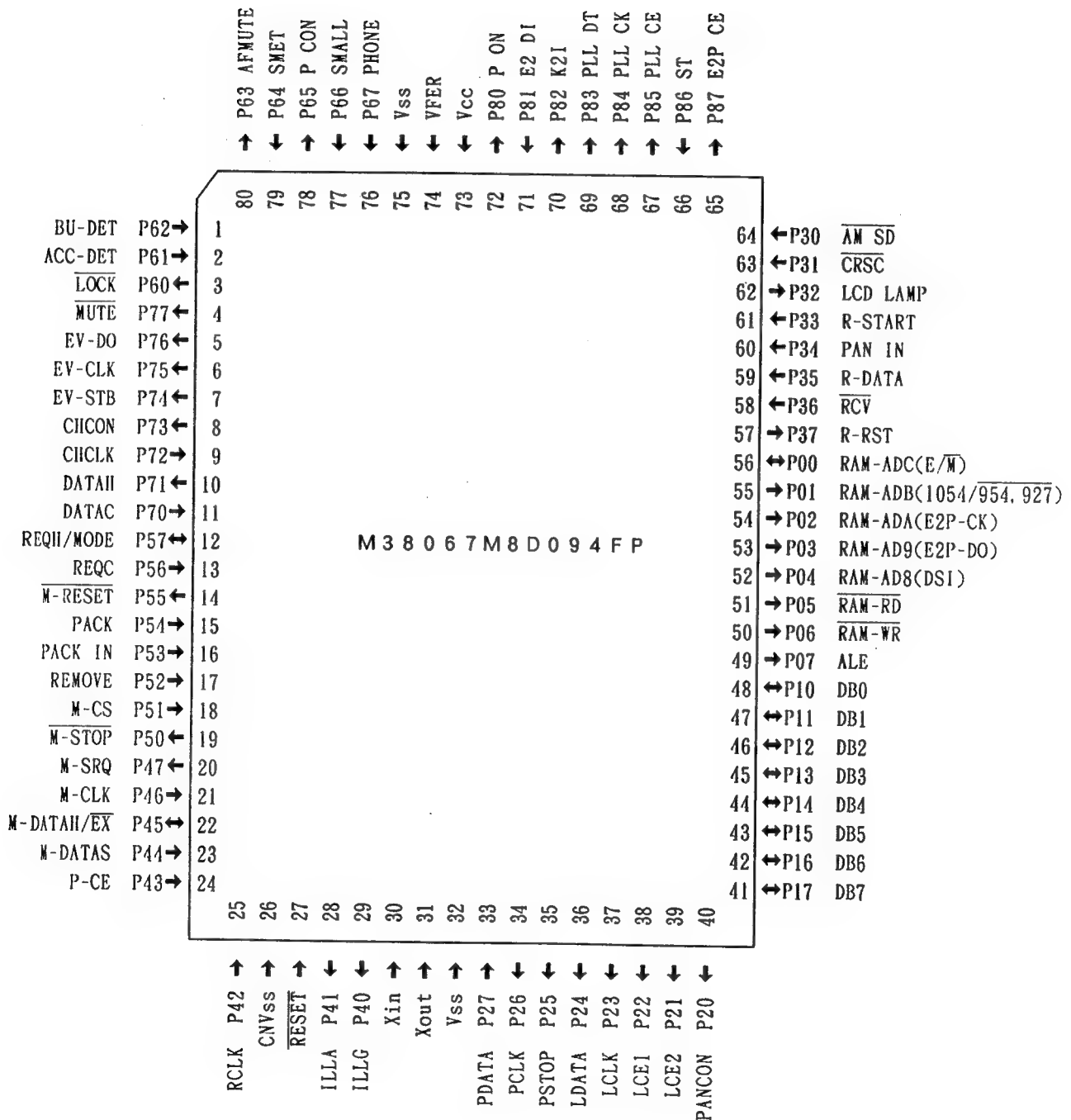
Pin No.	Pin Name	I/O	Description												
1	ST-BY	I	Mechanism Stand-by switch input.												
2	REEL S	I	Supply reel pulse input.												
3	REEL T	I	Take-up reel pulse input.												
4	MONO	O	Forced monaural control output.												
5	MUTE	O	Muting output. (Not used)												
6	FWD/REV	O	Equalizer amplifier FWD/REV switching output.												
7	EQ MUTE	O	Equalizer muting output ("H" during play).												
8	DOLBY ON/OFF	O	Dolby output.												
9	DOLBY B/C	O	Dolby output.												
			<div> <div>"H" ← DOLBY OFF</div> <div>"H" ← DOLBY B</div> <div>"L" ← DOLBY C</div> </div>												
10	T/R	O	Source switching control.												
11	CD	O	<table border="1"> <thead> <tr> <th></th><th>Radio</th><th>CD-CH</th><th>Tape</th></tr> </thead> <tbody> <tr> <td>10</td><td>L</td><td>H</td><td>H</td></tr> <tr> <td>11</td><td>X</td><td>L</td><td>H</td></tr> </tbody> </table>		Radio	CD-CH	Tape	10	L	H	H	11	X	L	H
	Radio	CD-CH	Tape												
10	L	H	H												
11	X	L	H												
12	NC	—	No Connection. Open.												
13	METAL	I	Metal tape detection ("L" = Metal).												
14	MODE IN	I	Mode pulse detection ("L" = Mode).												
15	PACK DETECT	I	Cassette pack present/absent detection ("H" = Pack detected).												
16	MUSIC	I	Music detection for music search ("H" = Blank).												
17	Vss	—	μ-COM earth GND.												
18, 19	XT1, XT2	—	Not used. Open.												
20	RESET	I	Reset input.												
21, 22	X1, X2	—	Ceramic oscillator connection terminal. (4.19 MHz)												
23	MAIN	O	Main motor output.												
24	SUB+	O	Sub motor forward output.												
25	SUB-	O	Sub motor reverse output.												
26	KICK	O	Kick output for escape from gear mesh.												
27		O	Not used. Pulled up or pulled down.												
28	REQ TO HU	O	Communication request to head unit.												
29	S1	I	Serial data input line.												
30	S0	O	Serial data output line.												
31	CLK	I	Serial clock input line.												
32, 33		I	Not used. Connected to VDD or Vss.												
34	NC	—	No Connection. Open.												
35		I	Not used. Connected to VDD or Vss.												
36	M-STOP	I	Stop request. (Oscillation stop)												
37	RQ FROM HU	I	Communication request from head unit.												
38	NC	—	No Connection. Open.												
39	VDD	—	Power supply terminal. 5 V.												
40	BEEP	O	Beep output. (2 kHz)												
41~43		O	Not used. Pulled up or pulled down.												
44	PACK IN	I	PACK-IN switch input.												

CIRCUIT DESCRIPTION

9. IC16 : M38067M8D094FP (X14-5002-70)

System Microcomputer

9-1. Pin connection



CIRCUIT DESCRIPTION

9-2. Terminal Description

Pin No.	Port No.	Pin Name	I/O	Active	Function	Halt
1	P62	BU-DET	I	L	Momentary power failure detection. Momentary failure = 'H'.	
2	P61	ACC-DET	I		Acc ON/OFF input. ON = 'L'.	
3	P60	LOCK	O	L	CK-50 control ON = 'L'. ('H' when unlocked)	L
4	P77	MUTE	O	L	Muting ON/OFF.	H
5	P76	EV-DO	O		Electronic volume data.	L
6	P75	EV-CLK	O		Electronic volume clock.	L
7	P74	EV-STB	O	H	Electronic volume STB.	L
8	P73	CHCON	O	H	CD-CH control ON/OFF.	L
9	P72	CHCLK	I		CD-CH clock.	
10	P71	DATAH	O		CD-CH output data.	L
11	P70	DATAC	I		CD-CH input data.	
12	P57	REQH/MODE	O/I	L	CD-CH request output. In test mode, K2I mode read.	L
13	P56	REQC	I	L	CD-CH request input.	L
14	P55	M-RESET	O	L	Cassette mechanism controller reset.	H
15	P54	PACK	I		Cassette pack detection. Detected = 'L'.	
16	P53	PACK IN	I	H	Cassette PACK-IN switch input. PACK IN = 'H'.	
17	P52	REMOVE	I		Panel detached detection input. Attached = 'H'.	
18	P51	M-CS	I		Cassette mechanism controller CS.	H
19	P50	M-STOP	O	L	Cassette mechanism controller output stop.	L
20	P47	M-SRQ	O	L	Cassette mechanism controller SRQ.	
21	P46	M-CLK	I	L	Cassette mechanism controller communication clock.	H
22	P45	M-DATAH/ EX RST	I		Output data for communication with cassette mechanism controller. During RESET, 'L' for forced reset operation (Memory clear).	H
23	P44	M-DATAS	I	L	Input data for communication with cassette mechanism controller.	
24	P43	P-CE	I		Panel μ -COM Chip Enable.	
25	P42	RCLK	I		Sync μ -COM Clock.	
26	CNVss		I	GND	Chip operation control (single mode 'L').	
27	RESET		I	L	Reset.	
28	P41	ILLA	O	H	Illumination - Amber - ON.	L
29	P40	ILLG	O	H	Illumination - Green - ON.	L
30	XIN		I		Oscillator connection.	
31	XOUT		O		Oscillator connection.	
32	Vss				Earth GND.	
33	P27	PDATA	I		Panel μ -COM communication data.	
34	P26	PCLK	O	H	Panel μ -COM communication clock.	
35	P25	PSTOP	O	L	Panel μ -COM oscillation stop.	L
36	P24	LDATA	O		LCD data.	L
37	P23	LCLK	O		LCD clock	L
38	P22	LCE1	O	H	LCD driver CE1.	L
39	P21	LCE2	O	H	LCD driver CE2.	L
40	P20	PANCON	O	H	Panel μ -COM power control (Panel detached = 'L').	
41~48	P17~P10	DB7~DB0	I/O		SRAM data bus.	L
49	P07	ALE	O		Latch output.	L
50	P06	RAM-WR	O		SRAM write	L
51	P05	RAM-RD	O		SRAM read	L
52	P04	RAM-AD8	O		SRAM address/When panel is detached, used as the DSI pulse output.	L
53	P03	RAM-AD9	O		SRAM address/EEPROM data output.	L
54	P02	RAM-ADA	O		SRAM address/EEPROM clock.	L
55	P01	RAM-ADB	O		SRAM address/Initial setting (222/224).	L
56	P00	RAM-ADC	O		SRAM address/Initial setting (E/M).	L
57	P37	R-RST	O		Sync μ -COM reset.	L
58	P36	RCV	I		Sync detection.	
59	P35	R-DATA	I		Sync μ -COM data.	
60	P34	PAN IN	I		Panel detection. Panel detached = 'L'.	

CIRCUIT DESCRIPTION

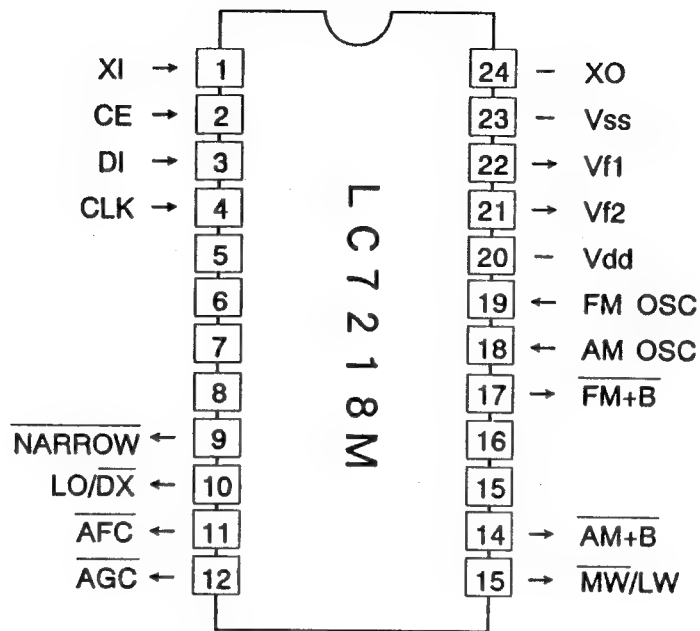
Pin No.	Port No.	Pin Name	I/O	Active	Function	Halt
61	P33	R-START	I		Sync μ -COM start data.	
62	P32	LCD LAMP	O	H	LCD lamp control.	L
63	P31	CRSC	I		Noise detection. Noise detected = 'L'.	
64	P30	AMSD	I		FM: Band muting detection/AM: SD station detected = 'L'.	
65	P87	E2P-CE	O	L	EEPROM CE.	L
66	P86	ST	I		Stereo/Mono.	
67	P85	PLL-CE	O		PLL CE.	L
68	P84	PLL-CLK	O		PLL clock.	L
69	P83	PLL-DT	O		PLL data.	L
70	P82	K2I	O	H	K2I control. "H" = Forced Wide (K2I OFF). "L" = Auto (K2I ON).	L
71	P81	E2 DI	I		EEPROM data input.	
72	P80	P-ON	O		Peripheral power control.	L
73	VCC				Power supply.	
74	VREF		I		A/D conversion reference voltage.	
75	VSS				Earth GND.	
76	P67	PHONE	I	L	EX muting.	
77	P66	SMALL	I	L	Small input.	
78	P65	P-CON	O	H	P-CON output.	L
79	P64	S-MET	I		FM field strength input.	
80	P63	AF-MUTE	O	L	Quick muting for AF search SD.	H

CIRCUIT DESCRIPTION

10. IC1: LC7218M (X14-5002-70)

PLL

10-1. Pin connection



10-2. Terminal Description

Pin No.	Port No.	Pin Name	I/O	Active	Function
7	-		I		Not used (to earth GND).
8	-		I		Not used (to earth GND).
9	-	NARROW	O	-	"L" in Forced Narrow mode (test mode).
10		LO/DX	O	-	LOCAL/DX switching.
11		AFC	O	L	Automatic frequency control (FM).
12		AGC	O	L	Automatic gain control (AM).
13		MW/LW	O	L	MW/LW switching.
14		AM (+B)	O	L	AM+B
17		FM (+B)	O	L	FM+B

KRC-1054R

MECHANISM OPERATION DESCRIPTION

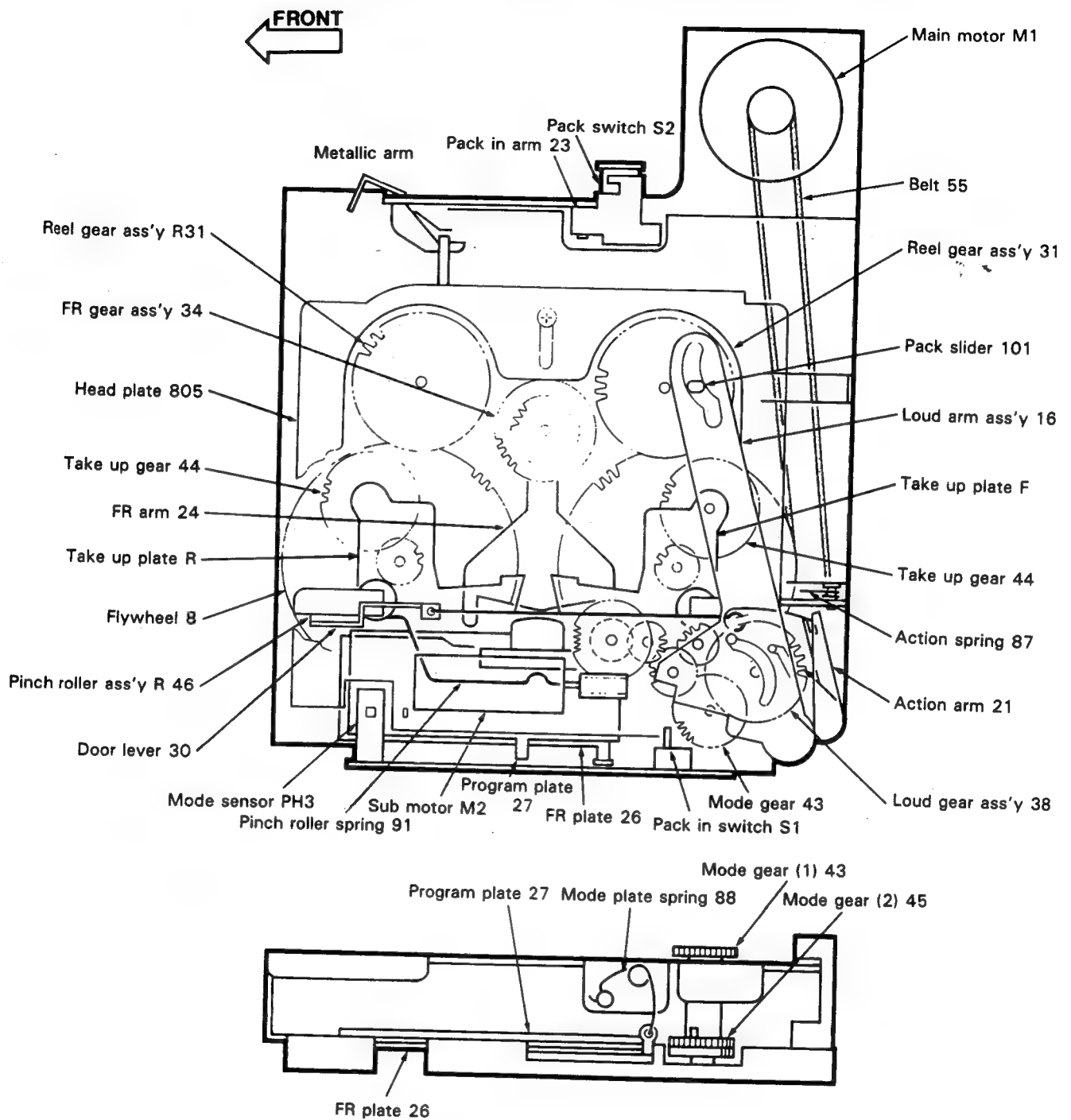


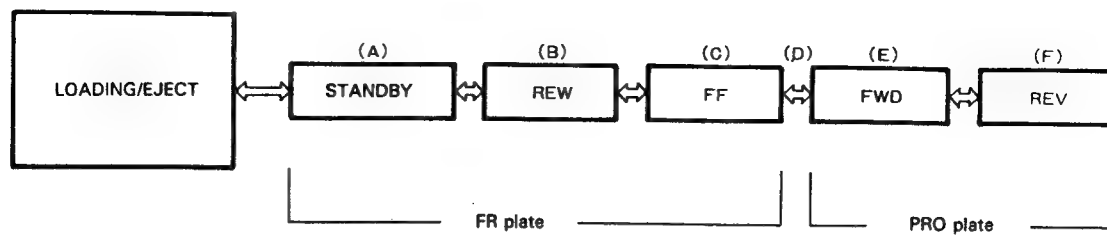
Fig. 1

KRC-1054R

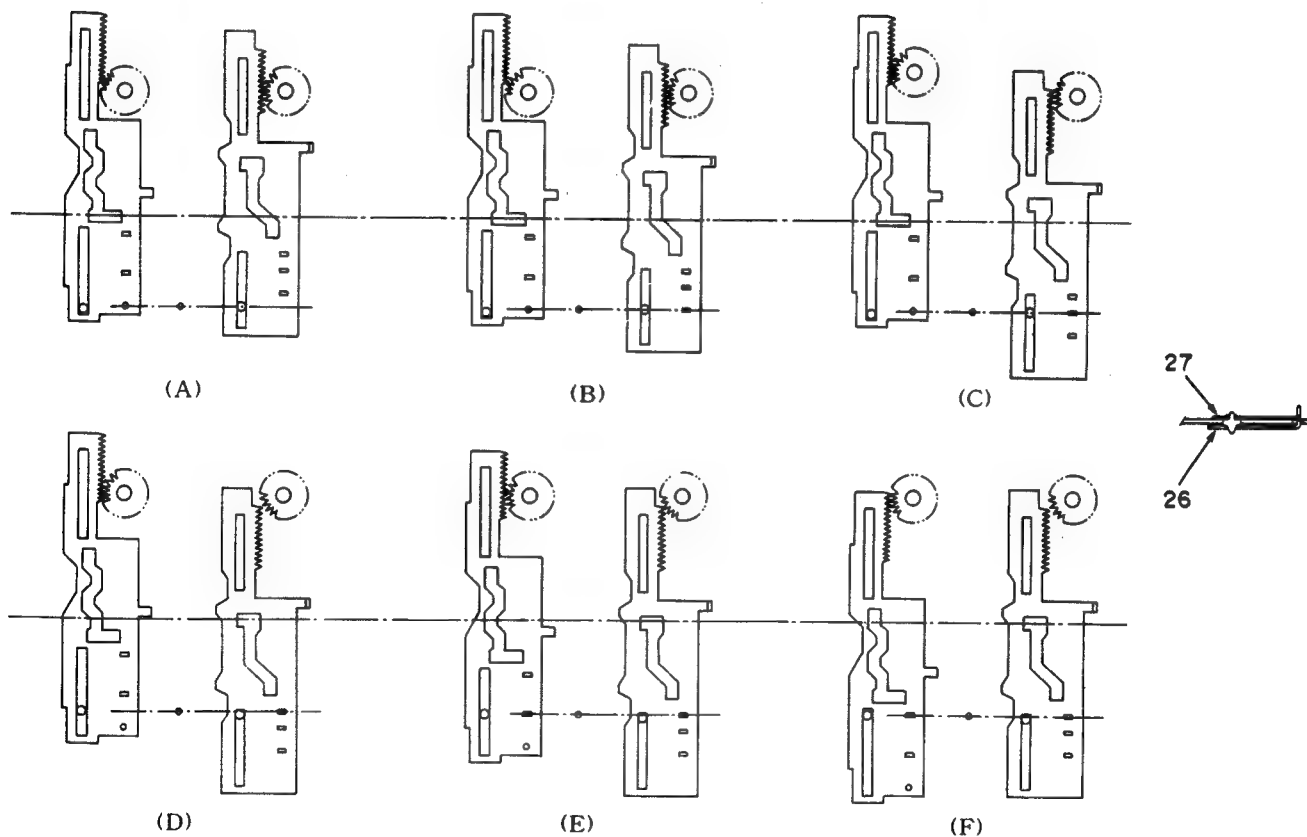
MECHANISM OPERATION DESCRIPTION

Mechanism operation modes

Each mode undergoes the following sequence:



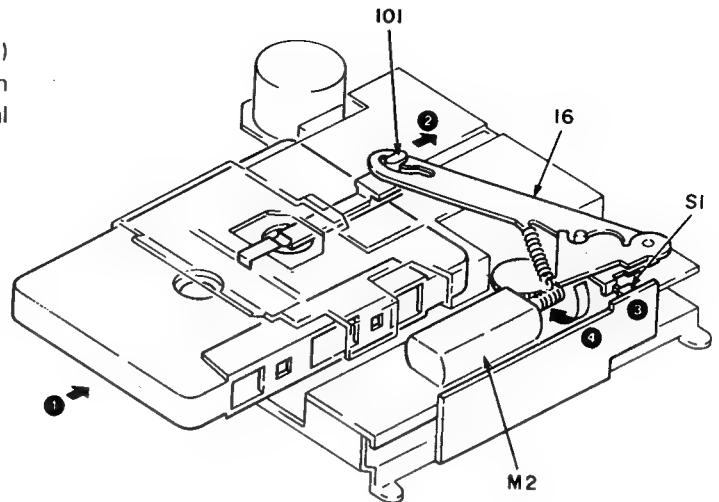
Each mode is determined by the positions of the FR and PRO plates.



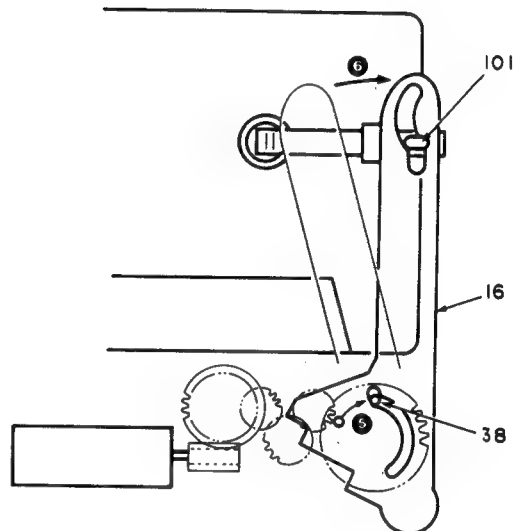
MECHANISM OPERATION DESCRIPTION

1. Loading

When the cassette tape is pushed in ①, the loading arm (16) moves via the pack slider (101)... ②. Thus, the pack-in switch (S1) detects this... ③, and the sub motor (M2) makes normal rotation... ④.

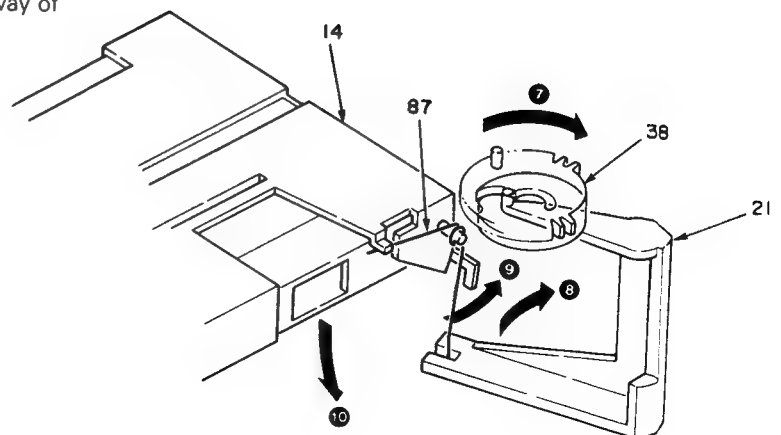


The rotation of the sub motor (M2) causes the load gear (38) to rotate by way of the idle gear... ⑤. The load gear (38) provides the rotation of the loading arm (16) by its pin... ⑥, to load in the cassette tape.



2. PACK DOWN

When the load gear (38) further rotates ⑦, the action arm (21) also rotates ⑧ to lower the action plate (14)... ⑩, by way of the action plate spring (87)... ⑨.

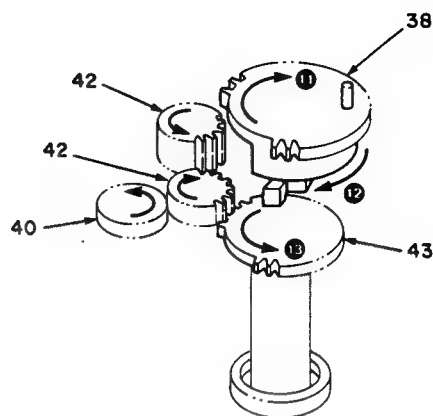


MECHANISM OPERATION DESCRIPTION

3. Change from load gear to mode gear

When the load gear (38) further more rotates ⑪, the boss under it pushes against the boss of the mode gear (43)... ⑫, so that the mode gear (43) rotates after the shift of its non-toothed section... ⑬.

Thus, the load gear (38) stops rotation on account of its non-toothed section coming.

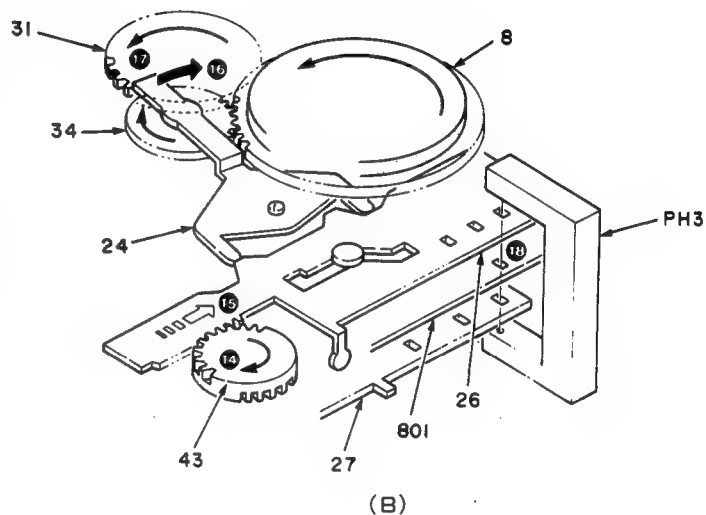


4. REW

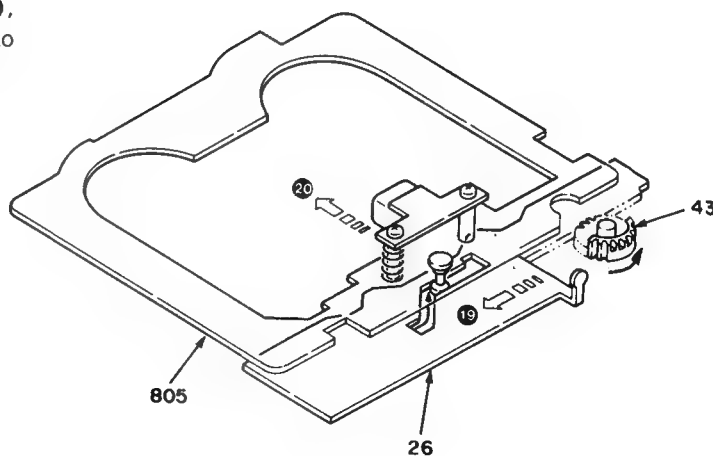
When the mode gear (43) rotates ⑭, the FR plate (26) under it moves ⑮. The cam of the FR plate (26) works to rotate the FR arm (24)... ⑯.

Further, the FR arm (24) moves to transmit the rotation of the flywheel (8) to the reel gear (31)... ⑰.

At this time, a slot (REW hole) of the FR plate (26) is detected by the mode sensor (PH3)... ⑱, to stop the rotation of the sub motor.



For REW or FF, due to the groove of the FR plate (26)... ⑲, the head plate (805) advances ⑳ so that the head moves to a position at which T-ADV is feasible.

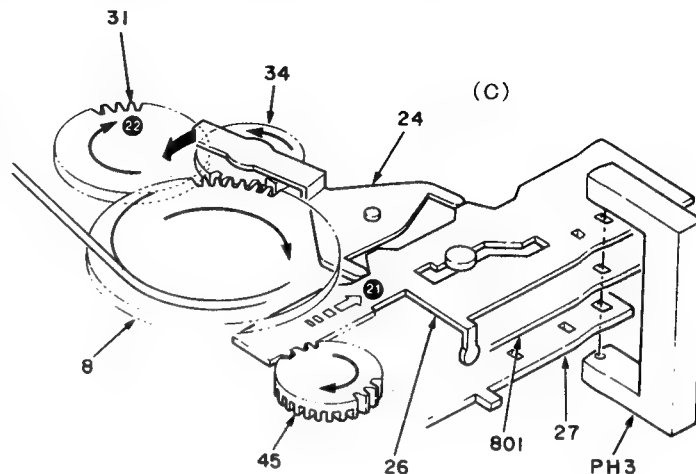


KRC-1054R

MECHANISM OPERATION DESCRIPTION

5. FF

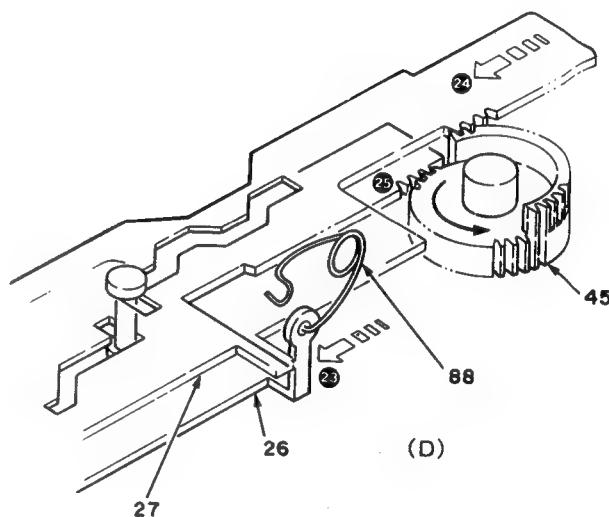
When the sub motor further rotates, the cam of the FR plate (26) moves ②① so that the FR arm (24) is rotated in the reverse direction... ②②. Thus, a slot (FF hole) of the FR plate (26) is detected by the mode sensor (PH3) to stop the rotation of the sub motor.



6. Change from FR plate to PRO plate

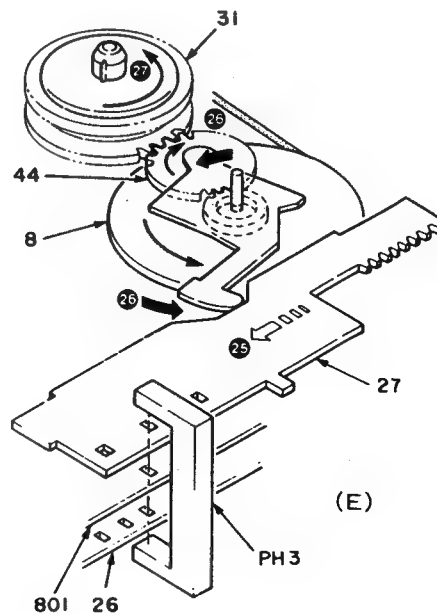
When the sub motor further more rotates, the knob of the FR plate (26) hits against the knob of the PRO plate (27)... ②③, so that the PRO plate (27) moves.

Thus, the rack of the PRO plate (27) enters into engagement with the mode gear... ②④. Then, the rack of the FR plate (26) is disengaged from the mode gear because of its non-toothed section coming... ②⑤. The mode plate spring (88) assists in this operation.



7. FWD PLAY

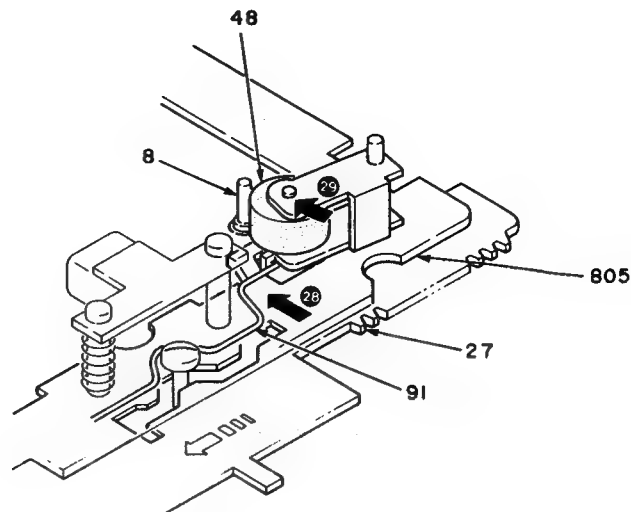
When the PRO plate (27) moves ②⑤, the takeup plate F is rotated by the cam of the PRO plate (27) and the takeup gear (44) engages with the reel assy (31)... ②⑥. The rotation of the flywheel (8) is transmitted to the reel assy (31) by way of the takeup gear (44)... ②⑦. Thus, a slot (FWD hole) of the PRO plate (27) is detected by the mode sensor (PH3) to stop the rotation of the sub motor.



KRC-1054R

MECHANISM OPERATION DESCRIPTION

The groove of the PRO plate (27) serves to advance the head plate (805)... 28, to move the head and the pinch roller (48) to their FWD PLAY position. The pinch roller (48) is contacted to the capstan (8) by pressure due to the shift to the takeup plate and the force of the pinch roller spring... 29.

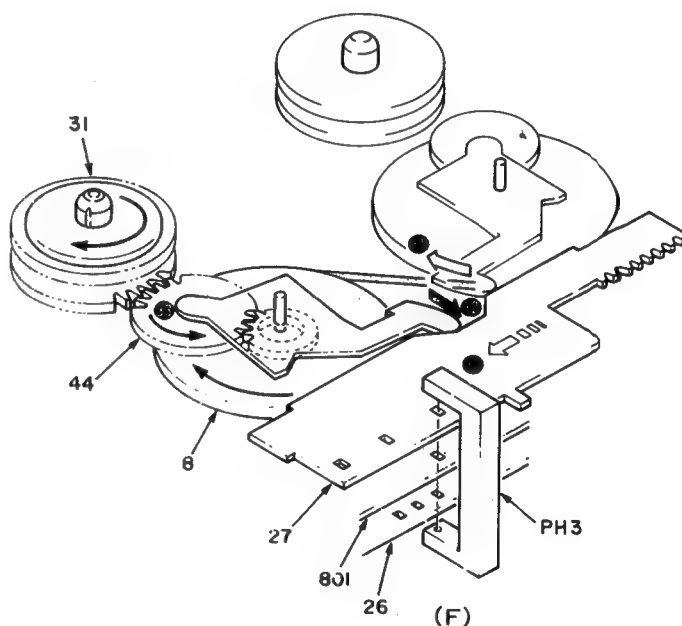


8. REV PLAY

When the PRO plate (27) further moves, the takeup plate F returns by the cam of the PRO plate (27)... 31, and the takeup plate R rotates 32.

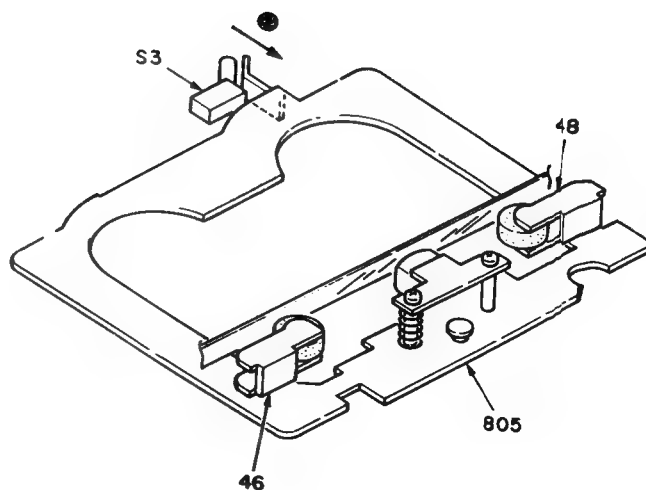
The rotation of the flywheel is transmitted to the reel assy (31) by way of the takeup gear (44)... 33.

Thus, a slot (REV hole) of the PRO plate (27) is detected by the mode sensor (PH3) to stop the rotation of the sub motor.



9. STANDBY (PAUSE)

From a given mode, when the head plate (805) regresses due to the reverse rotation of the sub motor rotates, when the pause switches (S3) acts ("L" to "H") to stop the rotation of the sub motor, the pause mode is entered.



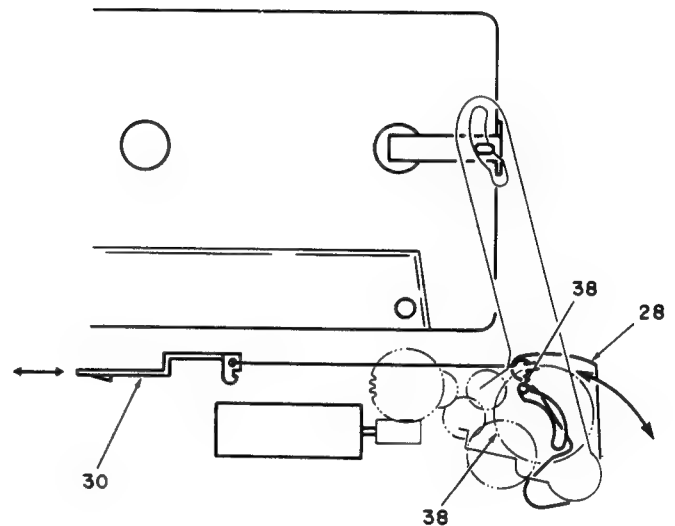
MECHANISM OPERATION DESCRIPTION

10. EJECT

When the sub motor is reversely rotated, an operation reverse to the loading operation is performed to eject the cassette tape.

11. SHUTTER DOOR

For loading or eject, the door arm (28) is actuated by the pin of the load gear (38). The door arm (28) moves the door lever (30) forwards or backwards to open or close the cassette door (lid).

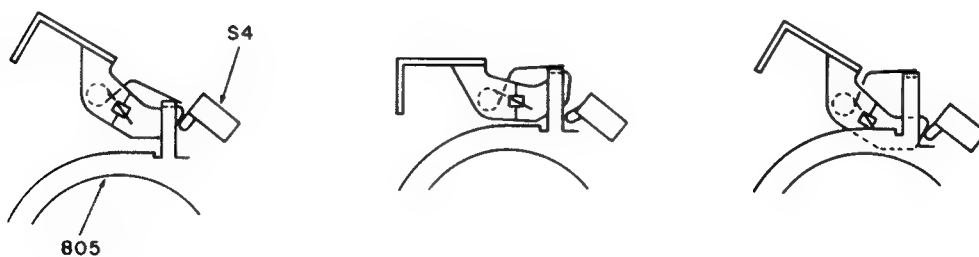


12. AUTO REVERSE

The tape end is detected by the sensor which senses the reel rotation.

13. AUTO METAL

The auto metal switch (S4) detects the high position hole of the cassette tape when the head plate (805) is advancing.




ADJUSTMENT

Set the controls and switches as follows.

BALANCE :center position BASS :center position LOUD :OFF LOCAL :OFF DOLBY NR :OFF
 FADER :center position TREBLE :center position T • ADV :OFF AUTO :OFF

No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	DISCRI-MINATOR	(A) 98.1MHz 0dev 60dB μ (ANT input)	Connect a DC voltmeter to TP1 (X14-B/5)	FM 98.1MHz	T1 (X14-B/5)	0V	(a)
2	SEPARATION (WIDE)	(C) 98.1MHz 1kHz, ± 40 kHz dev Pilot: ± 6.0 kHz dev Selector: L or R 60dB μ (ANT input)	(B)	Test mode: (*3) Forced Wide FM 98.1MHz	VR13 (X14-B/5)	Adjust it so that the crosstalk from L to R and R to L become minimum.	
3	ANRC (WIDE)	(C) 98.1MHz 1kHz, ± 40 kHz dev Pilot: ± 6.0 kHz dev Selector: L or R 35dB μ (ANT input)	(B)	Test mode: (*3) Forced Wide FM 98.1MHz	VR15 (X14-B/5)	Separation 10dB	
After 3 adjustment, measure DC voltage at 35 dB μ at TP2 (X14-B/5) and record. \rightarrow V35							(b)
4	SOFT MUTE LEVEL	(A) 98.1MHz 1kHz, ± 40 kHz dev 60dB $\mu \rightarrow$ No input	(B)	Test mode: (*3) Forced Wide FM 98.1MHz	VR11 (X14-B/5)	Output Noise level -25dB μ (When not add any signal to ANT terminal)	
5	MUTE SENSITIVITY LEVEL	(A) 98.1MHz 0 dev 5 dB μ (ANT input)	—	Test mode: (*3) Forced Wide FM 98.1MHz	VR14 (X14-B/5)	LCD "PAUSE" ON \rightarrow OFF	
6	SEEK STOP SENSITIVITY LEVEL	(A) 98.1MHz 0 dev 20dB μ (ANT input)	—	Test mode: (*3) Forced Wide FM 98.1MHz	VR2 (X14-A/5)	LCD "DQB" OFF \rightarrow ON	
7	NARROW GAIN	(C) 98.1MHz 1kHz, ± 40 kHz dev Pilot: ± 6.0 kHz dev Selector: L or R 35dB μ (ANT input)	Connect a DC voltmeter to TP2 (X14-B/5)	Test mode: (*4) Forced Narrow FM 98.1MHz	VR1 (X14-A/5)	Same as V35 easured in Wide.	(b)
8	SEPARATION (NARROW)	(C) 98.1MHz 1kHz, ± 40 kHz dev Pilot: ± 6.0 kHz dev Selector: L or R 60dB μ (ANT input)	(B)	Test mode: (*4) Forced Narrow FM 98.1MHz	VR12 (X14-B/5)	Adjust it so that the crosstalk from L to R and R to L become minimum.	
MW SECTION							
(1)	SEEK STOP SENSITIVITY LEVEL	(D) 999kHz 0% mod 35dB μ (ANT input)	—	Test mode: (*5) AM mode MW 999kHz	VR3 (X14-A/5)	LCD "DQB" OFF \rightarrow ON	
CASSETTE DECK SECTION							
[1]	PLAYBACK LEVEL	MTT-150	Connect an AC voltmeter to TP1(X09-B/2)	TAPE PLAY	VR1(L) VR2(R) (X09-B/2)	300mV	(c)

* Test mode

- With power OFF, press and hold (EJECT + ) while press RST SW.
- LCD ON mode starts. Be careful because VRs are maximum at this moment!
- Press SOURCE key to select TUNER (FM).
- Press K21 key. "K21" goes OFF, "MTL" goes ON \Rightarrow Forced Wide. *3
- Press ATT key. "ATT" goes ON, "MTL" goes OFF \Rightarrow Forced Narrow. *4
- Press AM key to select TUNER (AM). *5
- Press RST SW to release test mode.

ABGLEICH

ic Regler und Knöpfe wie folgt einstellen.

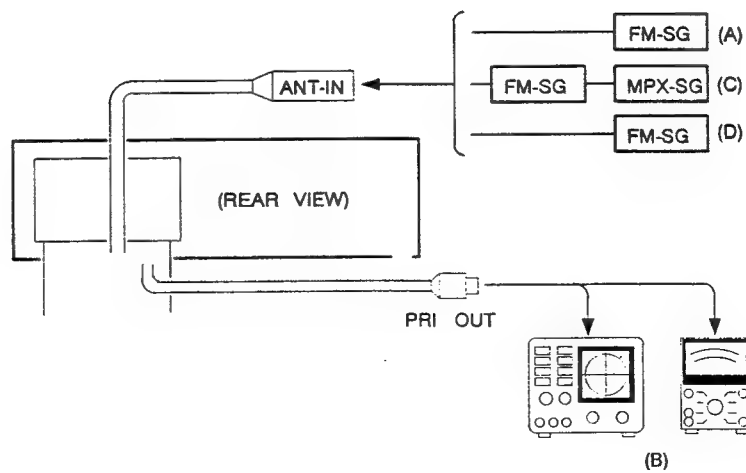
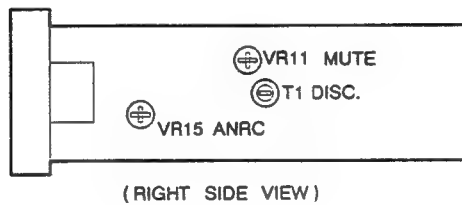
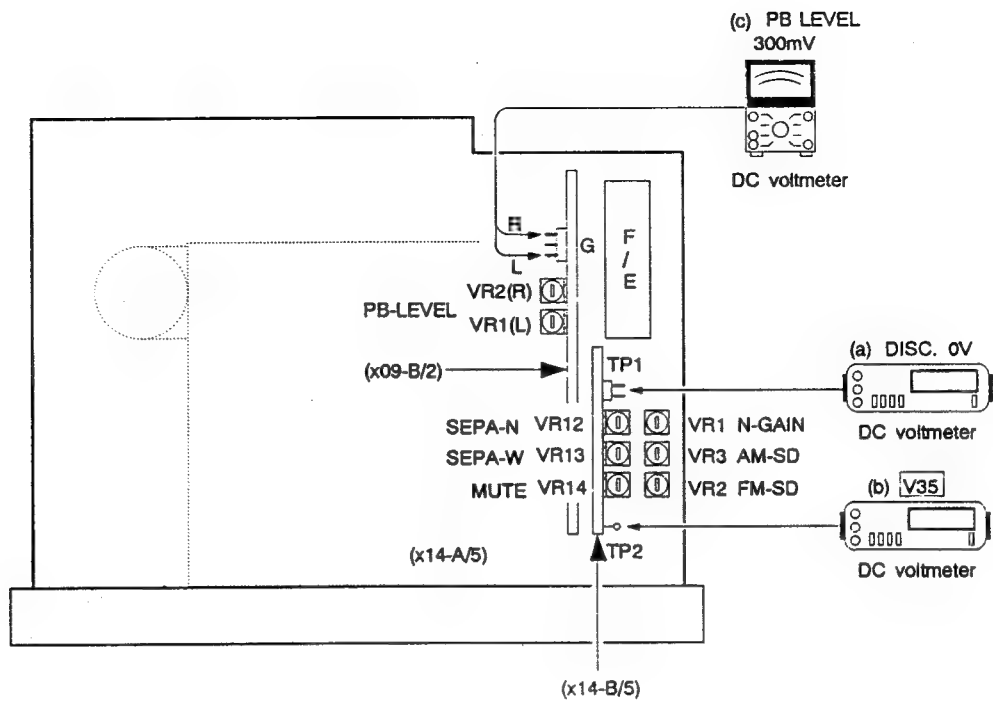
BALANCE :Mittelage BASS :Mittelage LOUD :OFF LOCAL :OFF DOLBY NR :OFF
 FADER :Mittelage TREBLE :Mittelage T * ADV :OFF AUTO :OFF

NR	GEGENSTAND	EINGANGS EINSTELLUNG	AUSGANGS EINSTELLUNG	TUNER (RECEIVER) EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-ABTEILUNG							
1	DISKRI- MINATOR	(A) 98.1MHz 0 Hub 60dBµ (ANT-Eingang)	Den Gleichstrom Voltmeter zwischen den beiden Stiften von TP1 anschließen (X14-B/5)	FM 98.1MHz	T1 (X14-B/5)	0V	(a)
2	STEREO KANAL TRENNUNG (Weit)	(C) 98.1MHz 1kHz, ±40kHz Hub Pilot: ±6.0kHz Hub Wahler: L or R 60dBµ (ANT-Eingang)	(B)	Testmodus : (*3) Weit erzwungen. FM 98.1MHz	VR13 (X14-B/5)	So einstellen, daß das Übersprechen von L auf R und von R auf L minimal wird.	
3	ANRC (Weit)	(C) 98.1MHz 1kHz, ±40kHz Hub Pilot: ±6.0kHz Hub Wahler: L or R 35dBµ (ANT-Eingang)	(B)	Testmodus : (*3) Weit erzwungen. FM 98.1MHz	VR15 (X14-B/5)	Trennung 10dB	
Nach der 3 Einstellung die Gleichspannung bei 35 dBµ an TP2 (x14-B/5) messen. → V35							(b)
4	Weiche Dämpfung PEGEL	(A) 98.1MHz 1kHz, ±40kHz Hub 60dBµ → No Eingang	(B)	Testmodus : (*3) Weit erzwungen. FM 98.1MHz	VR11 (X14-B/5)	Ausgangsrauschpegel -25dB (Wenn nicht, ein beliebiges Signal an den ANT- Anschluß anlegen)	
5	Dämpfung- sempfindlichkeit PEGEL	(A) 98.1MHz 0 Hub 5dBµ (ANT-Eingang)	—	Testmodus : (*3) Weit erzwungen. FM : 98.1MHz	VR14 (X14-B/5)	LCD "PAUSE" EIN → AUS	
6	SUCHEN HALT PEGEL	(A) 98.1MHz 0 Hub 20dBµ (ANT-Eingang)	—	Testmodus : (*3) Weit erzwungen. FM : 98.1MHz	VR2 (X14-A/5)	LCD "DD B" AUS → EIN	
7	SCHMAL- VERSTÄRKUNG	(C) 98.1MHz 1kHz, ±40kHz Hub Pilot: ±6.0kHz Hub Wahler: L or R 35dBµ (ANT-Eingang)	Den Gleichstrom Voltmeter zwischen den beiden Stiften von TP2 anschließen (X14-B/5)	Testmodus : (*4) Schmal erzwungen. FM 98.1MHz	VR1 (X14-A/5)	Gleich wie V35 gemessen in Weit.	(b)
8	STEREO KANAL TRENNUNG (Schmal)	(C) 98.1MHz 1kHz, ±40kHz Hub Pilot: ±6.0kHz Hub Wahler: L or R 60dBµ (ANT-Eingang)	(B)	Testmodus : (*4) Schmal erzwungen. FM 98.1MHz	VR12 (X14-B/5)	So einstellen, daß das Übersprechen von L auf R und von R auf L minimal wird.	
MW-ABTEILUNG							
(1)	SUCHEN HALT PEGEL	(D) 999kHz 400Hz, 30% mod 35dBµ (ANT-Eingang)	—	Testmodus : (*5) AM modus MW 999kHz	VR3 (X14-A/5)	LCD "DD C" AUS → EIN	
CASSETTEN-DECK-ABTEILUNG							
[1]	WIDERGABE PEGEL	MTT-150	Einen Wechsel- spannungsmesser zwischen zu TP1 anschließen. (X09-B/2)	Bandwiedergabe	VR1(L) VR2(R) (X09-B/2)	300mV	(c)

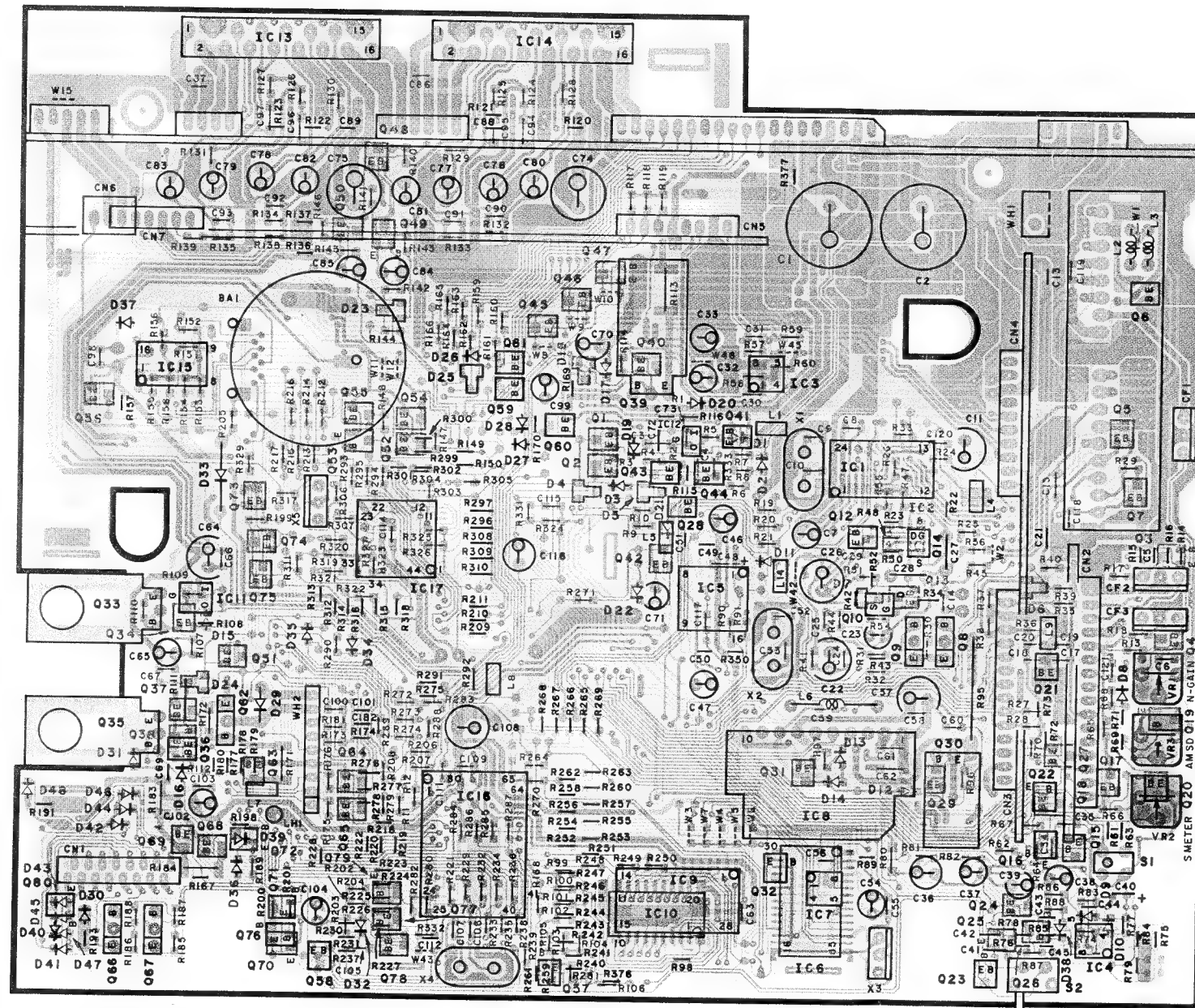
Testmodus

- Bei ausgeschalteter Spannungsversorgung ([EJECT] + [▶▶]) gedrückt halten und [RST] SW drücken.
- Der LCD ON-Modus beginnt. Vorsicht, weil die Regelwiderstände zu diesem Zeitpunkt maximal sind!
- Die [SOURCE]-Taste drücken, um TUNER (FM) zu wählen.
- Die [K2I]-Taste drücken. "K2I" erlischt, "MTL" leuchtet => Weit erzwungen. *3
- Die [ATT]-Taste drücken. "ATT" leuchtet, "MTL" erlischt => Schmal erzwungen. *4
- Die [AM]-Taste drücken, um TUNER (AM) zu wählen. *5
- Zum Verlassen des Testmodus [RST] SW drücken.

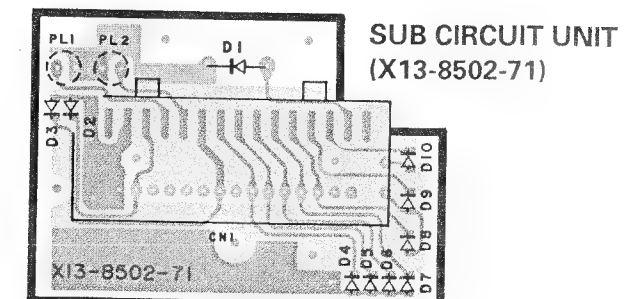
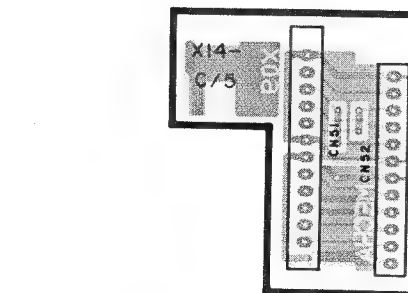
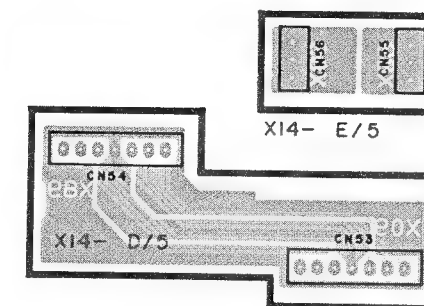
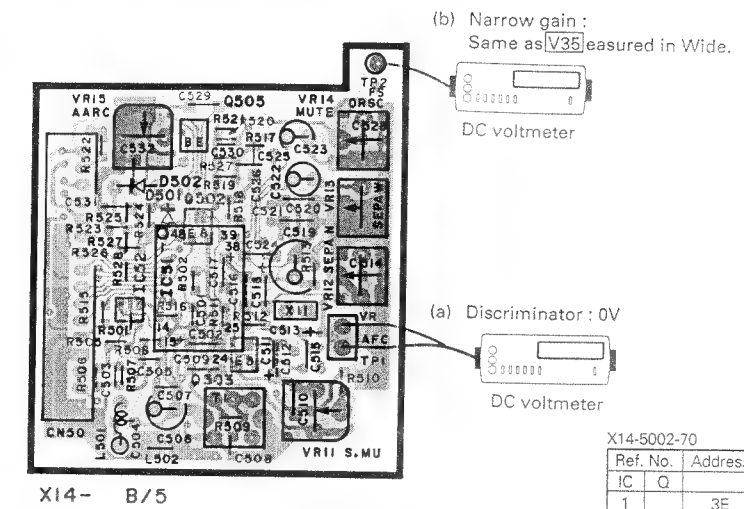
ADJUSTMENT



PC BOARD (COMPONENT SIDE VIEW)

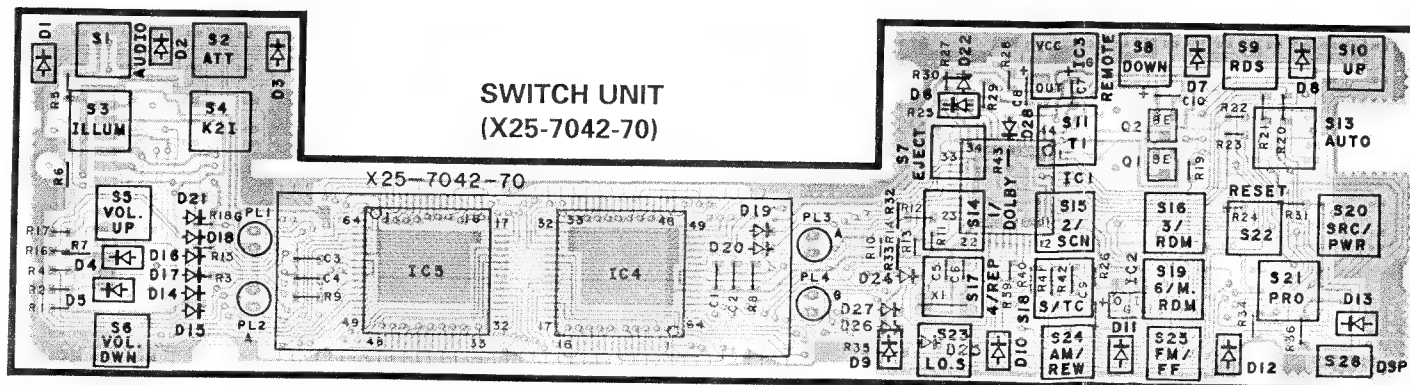


SYNTHESIZER UNIT (X14-5002-70)



X25-7042-70

Ref. No.	Address
1	6E
2	7E
3	6E
4	7D
5	7C
1	6F
2	6F



Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (FOIL SIDE VIEW)

SYNTHESIZER UNIT
(X14-5002-70)

(b) Narrow gain :
Same as V35 measured in Wide.



DC voltmeter

(a) Discriminator: 0V



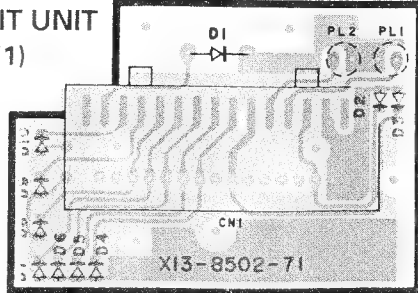
DC voltmeter

X14-5002-70

Ref. No.	Address
IC 1	3P
2	4P
3	3P
4	5Q
5	4P
6	5P
7	5P
8	5P
9	5Q
10	5Q
11	4S
12	3P
15	3S
16	5Q
17	4R
51	3M
52	3M
1	3Q
2	3Q
3	4Q
4	4Q
5	3Q
6	3Q
7	3Q
8	4Q
9	4Q
10	4P
12	4P
13	4P
14	4P
15	5Q
16	5Q
17	5Q
18	5Q
19	4Q
20	5Q
21	4Q
22	5Q
23	5Q
24	5Q
25	5Q
26	5Q
27	4Q
28	3Q
29	5Q
30	5Q
31	5P
32	5P

Ref. No.	Address
IC 1	4S
2	4S
3	4S
4	5S
5	4S
6	4S
7	3Q
8	3Q
9	4P
10	3Q
11	4P
12	3P
13	3R
14	3R
15	3R
16	3S
17	5Q
18	5R
19	5Q
20	5Q
21	5R
22	5R
23	4R
24	4R
25	5R
26	5R
27	5R
28	5R
29	5S
30	2M
31	3M
32	2M

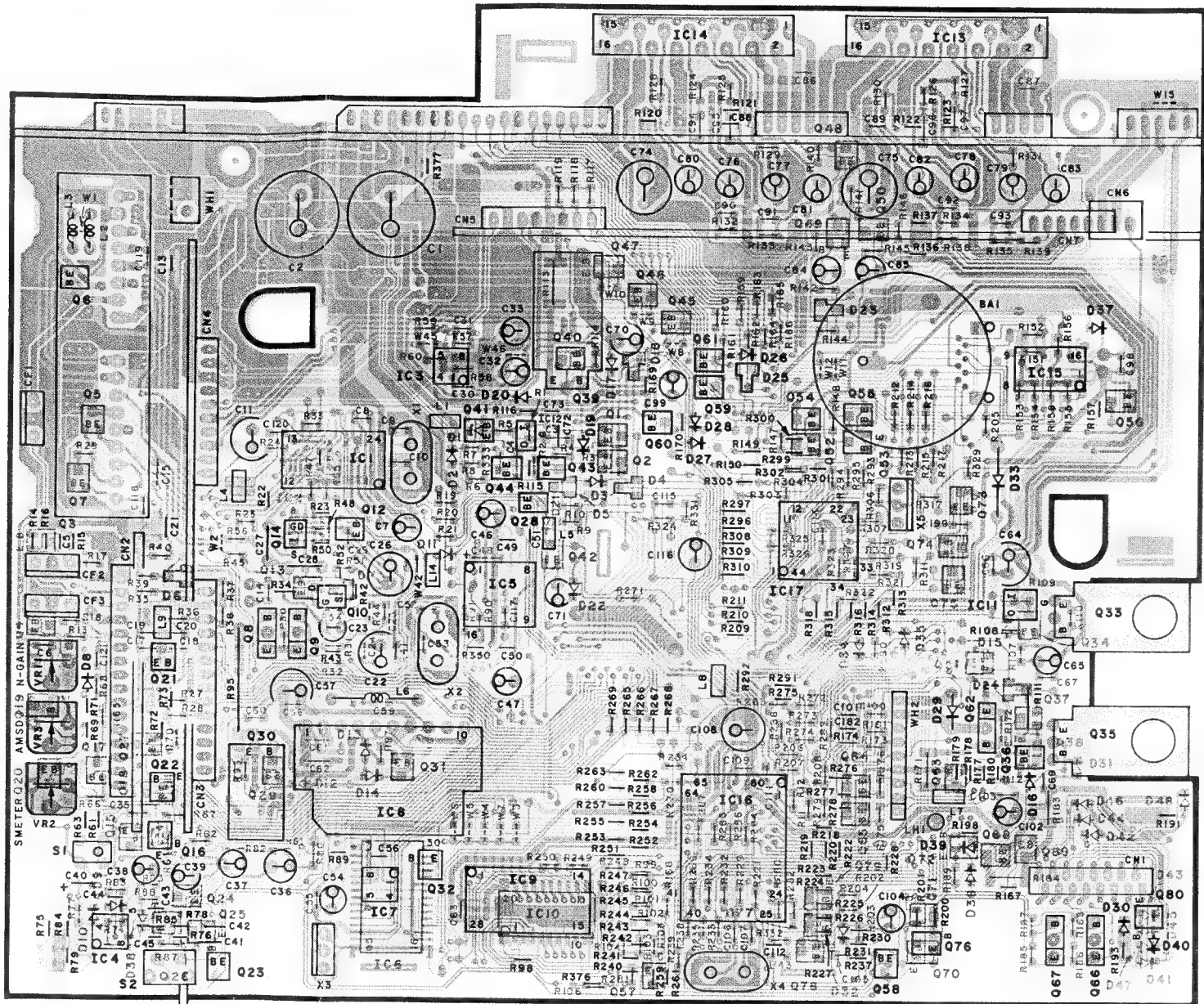
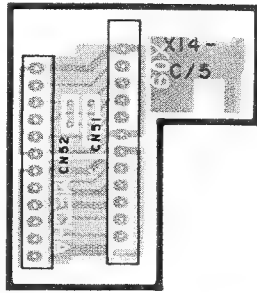
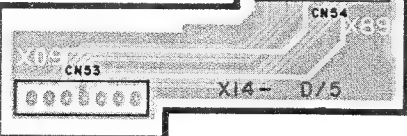
SUB CIRCUIT UNIT
(X13-8502-71)



X14- B/5

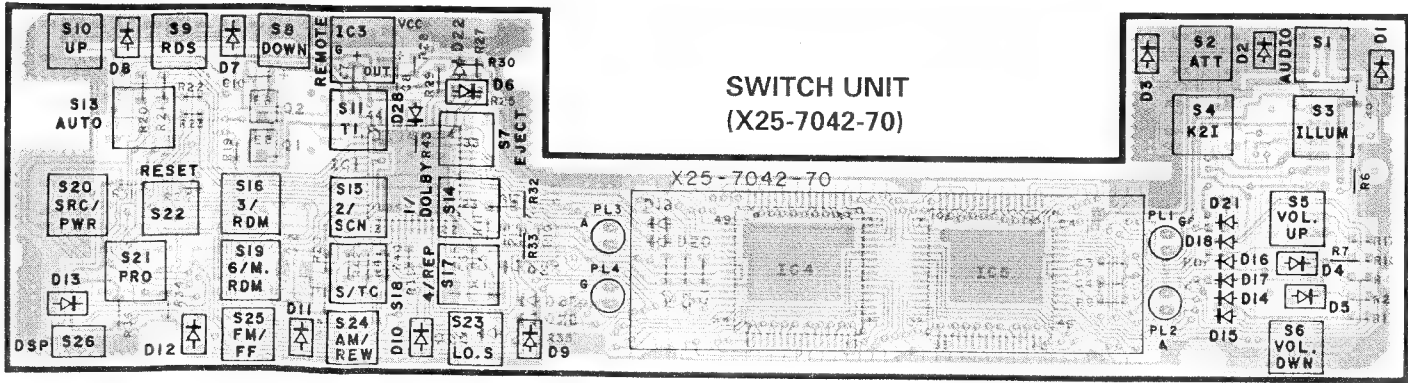


X14- E/5

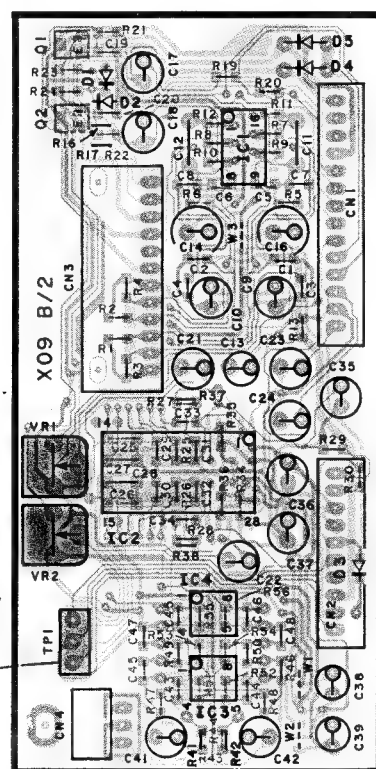


PANEL SW

SWITCH UNIT
(X25-7042-70)



PC BOARD (COMPONENT SIDE VIEW)

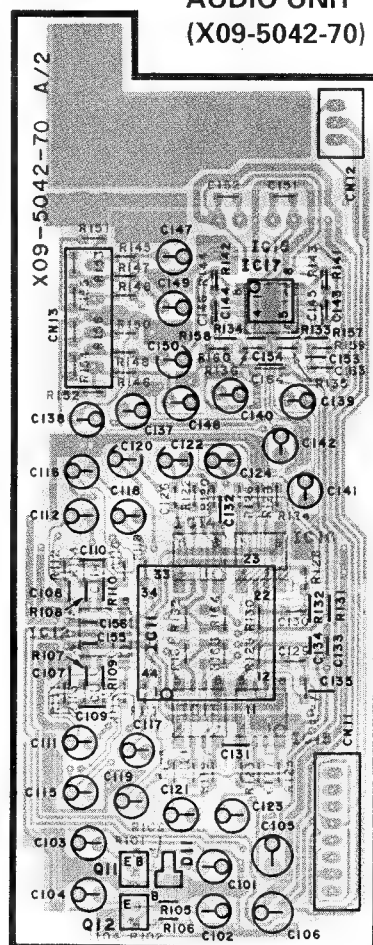


(c) Playback level : 300mV



AC voltmeter

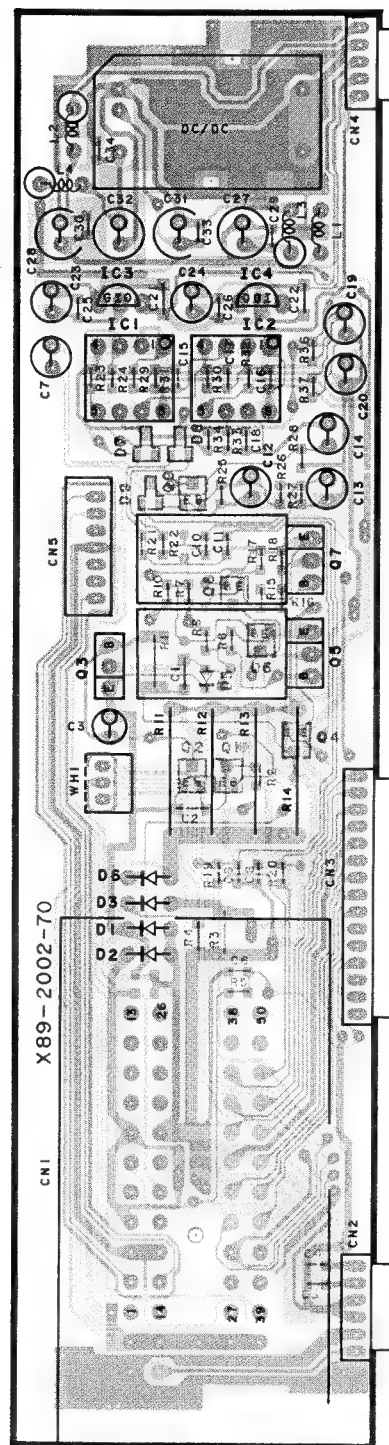
**AUDIO UNIT
(X09-5042-70)**



X09-5042-70

Ref. No.	Address
1	2V
2	3V
3	3V
4	3V
11	6V
12	6V
13	6V
14	6V
15	6V
16	6V
17	5V
18	5V
1	1V
2	2V
11	7V
12	7V

**DAUGHTER UNIT
(X89-2002-70)**



X89-2002-70

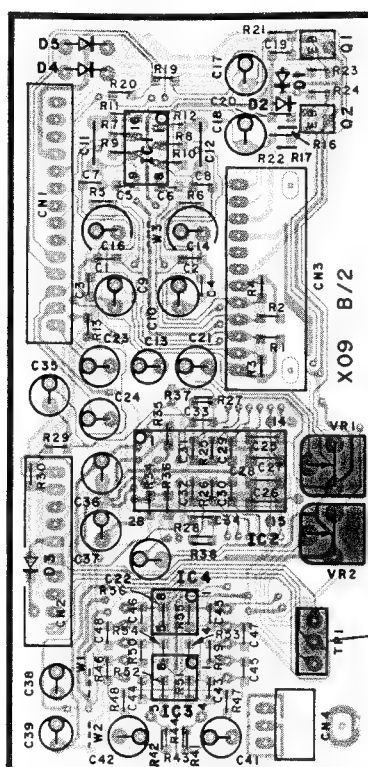
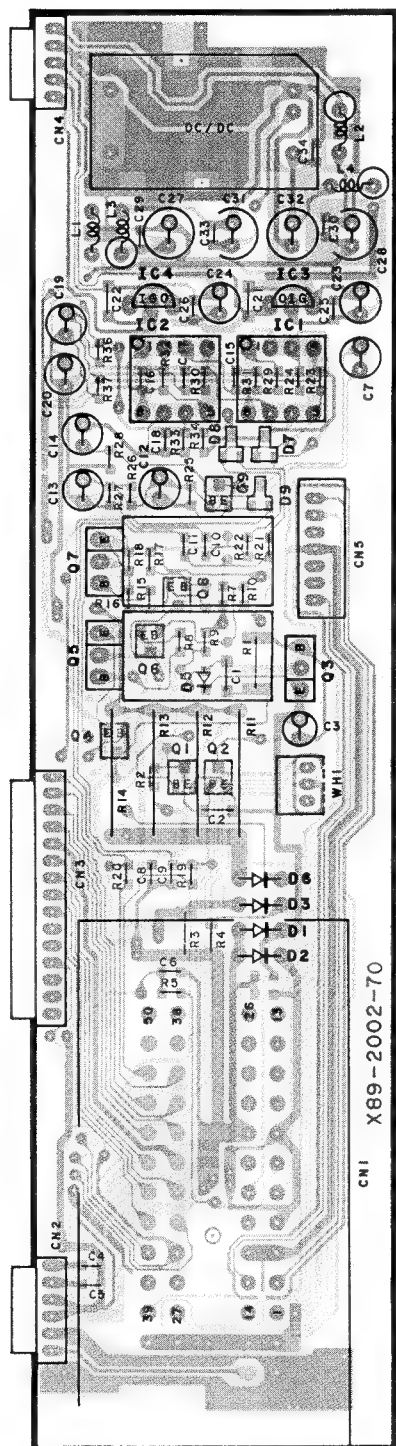
Ref. No.	Address
1	3X
2	3X
3	3W
4	3X
1	4X
2	4X
3	4W
4	4X
5	4X
6	4X
7	4X
8	4X
9	3X

Refer to the schematic diagram for the values of resistors and capacitors.

ALU

X89-2002-70

Ref. No.	Address
1	3AB
2	3AA
3	3AB
4	3AA
1	4AA
2	4AA
3	4AB
4	4AA
5	4AA
6	4AA
7	4AA
8	4AA
9	3AA



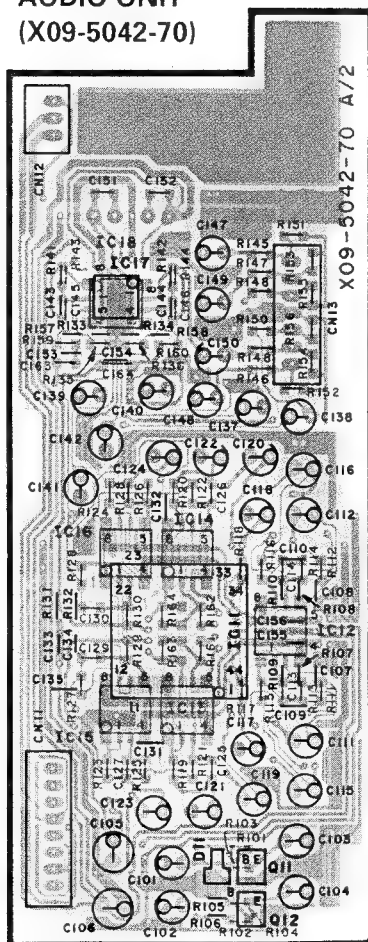
(c) Playback level : 300mV



AC voltmeter

X09-5042-70

Ref. No.		Address
IC	Q	
1		2AC
2		3AC
3		3AC
4		3AC
11		6AC
12		6AC
13		6AC
14		6AC
15		6AC
16		6AC
17		5AC
18		5AC
	1	1AC
	2	2AC
	11	7AC
	12	7AC

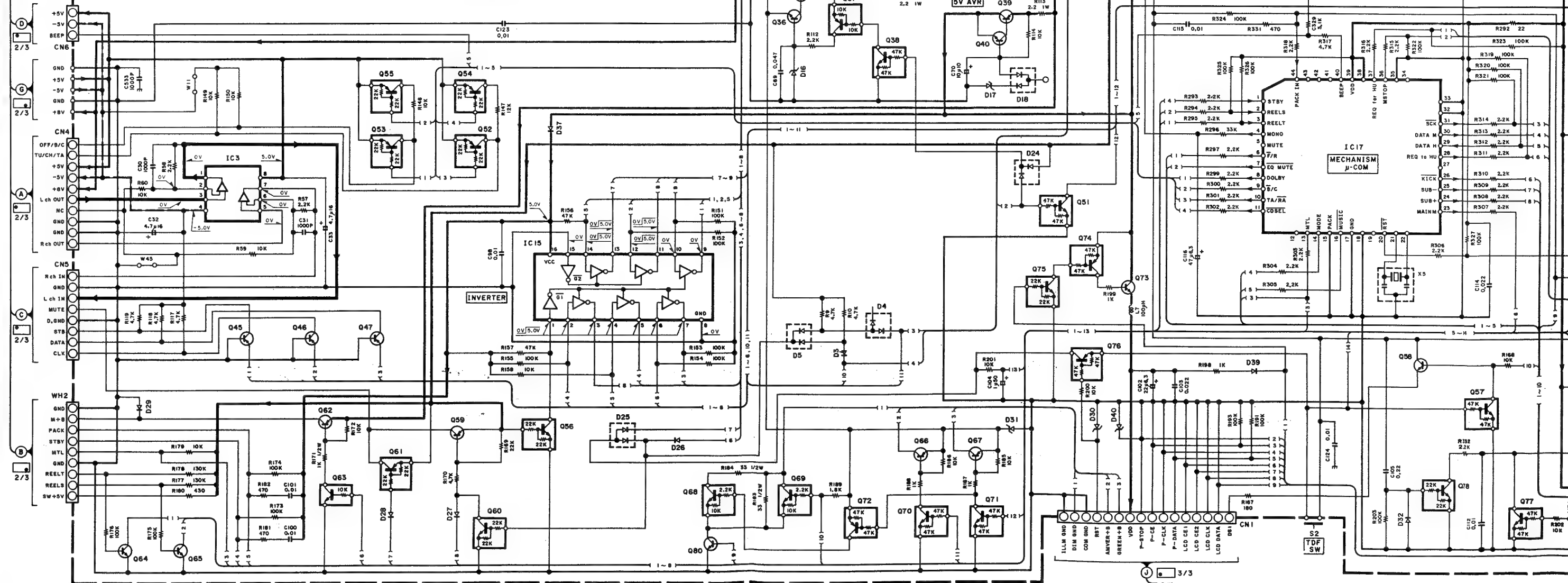


Refer to the schematic diagram for the values of resistors and capacitors.

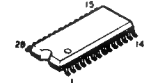
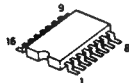
IC1	: LC7218M	Q1,2,15-17,19,26,29,36,40,44,58,64,65,79
IC2	: TC4W66F	Q3,4
IC3	: NJM5532MD	Q5,25,52-55,61
IC4	: NJM4558MD	Q6,11,31,32,56,60,75,78
IC5	: SAA6579T	Q7,21,72,74,76
IC6	: LC6543H-4600	Q8,9,62,66,67
	or LH5168H1	Q10,14
IC7	: TA7291P	Q12,20,22-24,27,38,42,51,57,70,71,77
IC8	: LC3564QM-10	Q13,18,45,46,47,59
IC9	: TC74HC573AF	Q28,41
IC10	: M5237ML	Q30
IC11	: PST572HMT	Q33,35,39
IC12	: SN74HC367ANS	Q43
IC15	: M38067M8D094	Q68,69
IC16	: M38067M8D094	Q63
IC17	: 75004GB-664-3B4	Q73,80
D1,2	: MA8068-M	
D3,8-11,14,15,19-22,26-28,32,34-39	: 1SS355	
D4,6,25	: DAP202K	
D5,24	: DAN202K	
D7,18	: DA204K	
D12	: MA8091-M	
D13	: MA8056-M	
D16	: MA8110-L	
D17	: MA8051-M	
D29	: ERA15-01	
D30,40	: MA8062-M	
D31	: MA8120-M	
D33	: SD184-1	

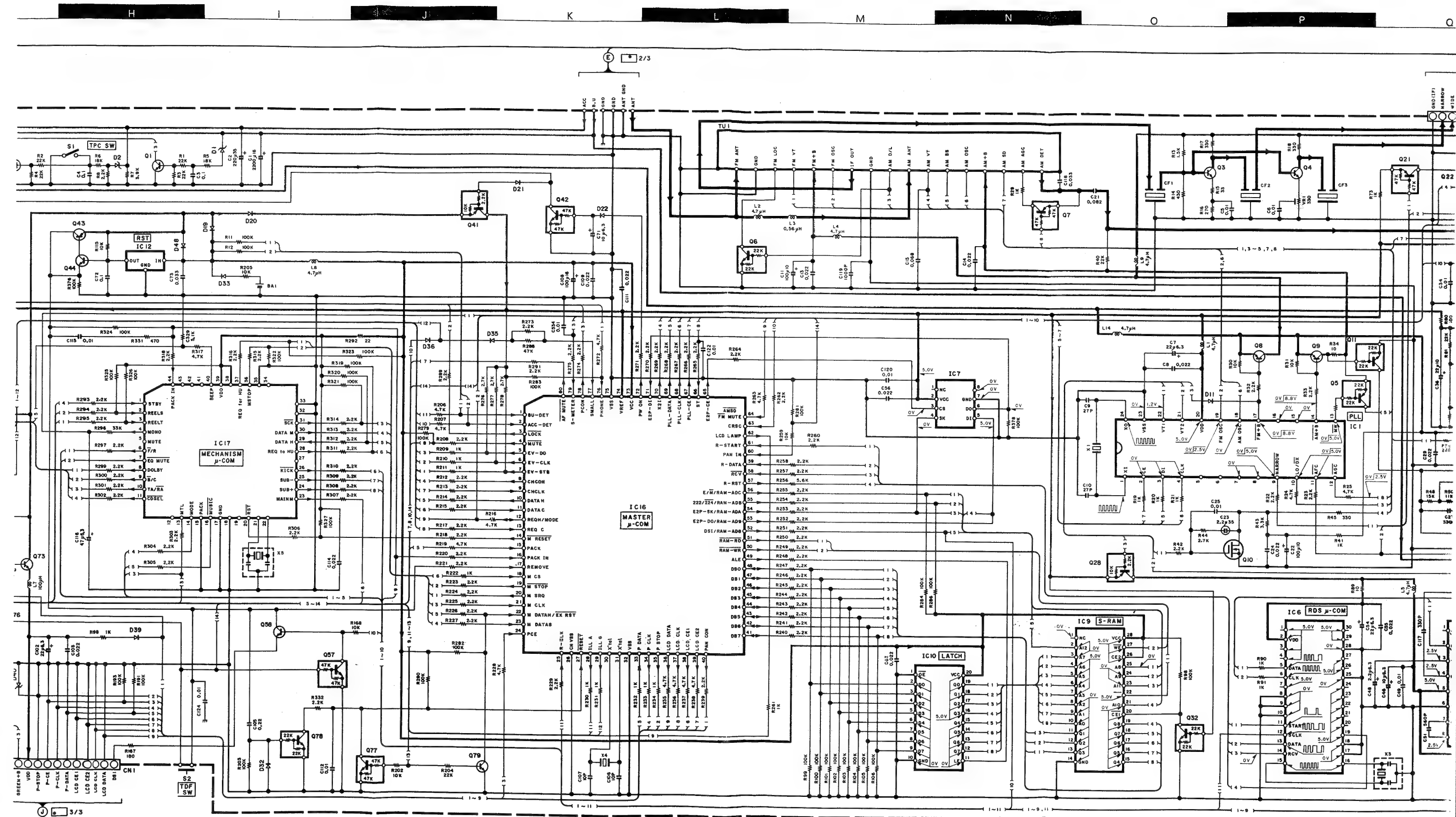
SIGNAL LINE
GND LINE
+B LINE
-B LINE

(X14-5002-70)(A/5)



DTA114EK	DTA143XK	2SC2411K	2SA1408	2SB1370F8	2SA1428	2SB1277	NJM4565D	TC74HC573AF	NJM4565MD	SAA6579T	TA78L005AP	HA12161FP	TA7291P
DTA143XK	DTC124EK			2SD1266BD					NJM5532MD		TA79L005P	LC3564QM-10	
DTB123YK	DTC124EK												
DTC124EK	DTC124EK												
DTD123YK	XDA124EK												
XDC124EK	XDC144EK												
2SA1036K	2SA1037K												
2SC2412K	2SC1413K												
2SD1757K													



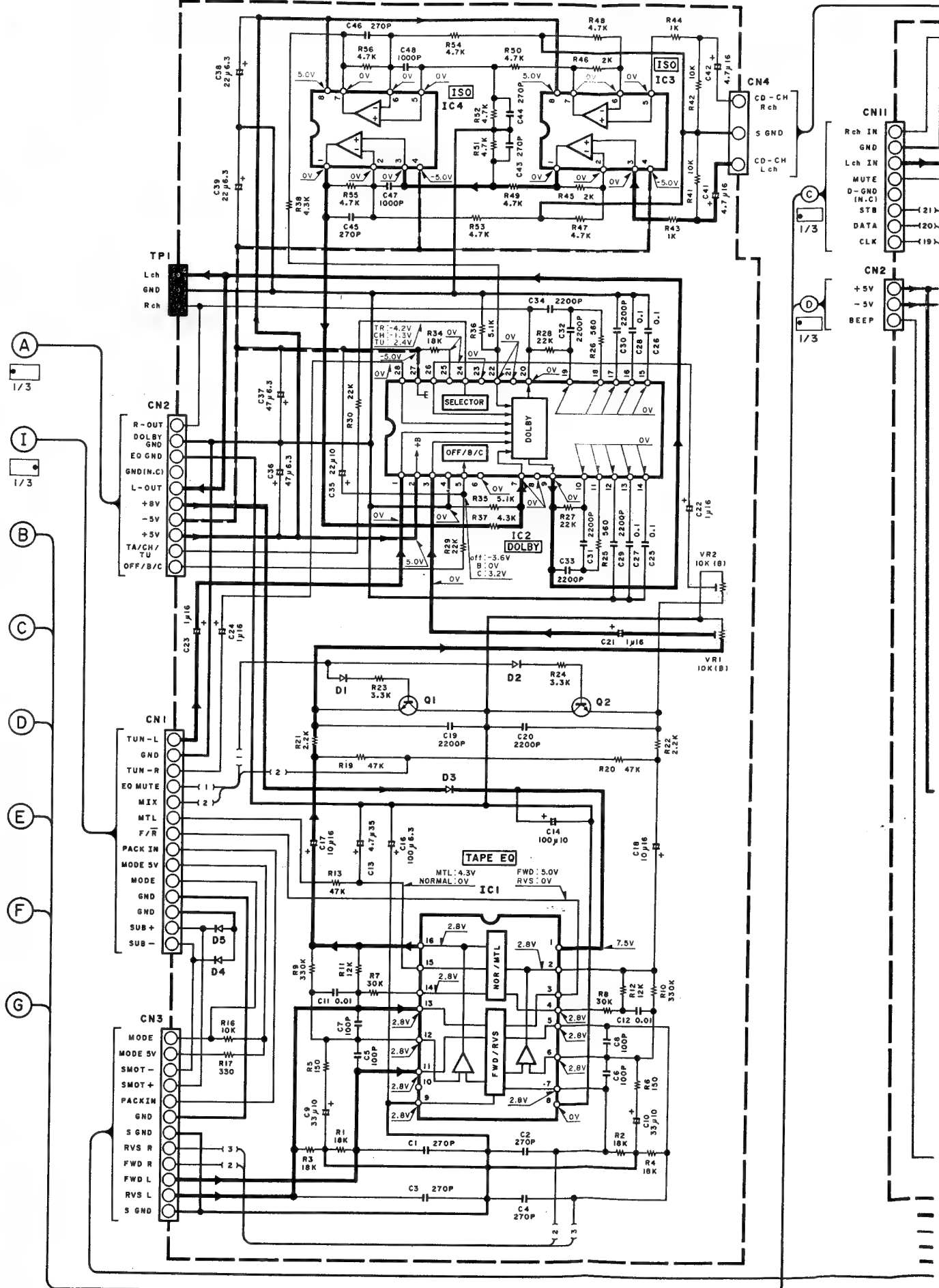


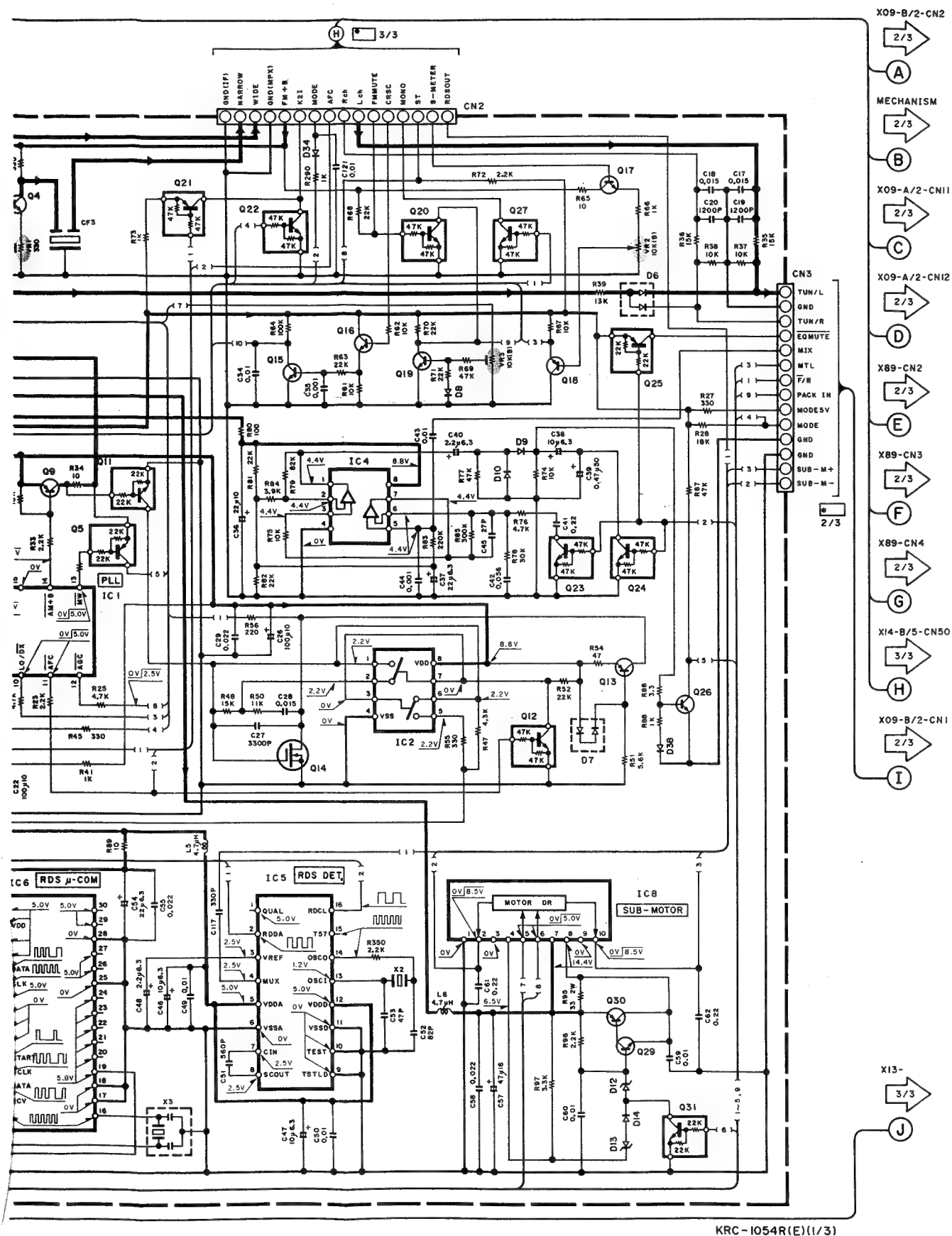
6579T	TA78L005AP TA79L005P	HA12161FP LC3564QM-10	TA7291P	74HC367ANS	LC7218M	M38067M8D094FP	TC9233FK 75004GB-863-3B4 75004GB-864-3B4	LC7582E	PST572DMT	M5237ML
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• DC voltages are as measured with a high impedance voltmeter, individual instruments or/and units.
 • Die angegebenen Gleichspannungswerte wurden mit einem hohen Meßwert aufgrund von Unterschieden zwischen einzelnen Instru-

CAUTION: For continued safety, replace safety critical components (to parts list). Δ Indicates safety critical components. To reduce the measurements shall be carried out (exposed parts are acceptably insulated).

(X09-5042-70) (B/2)





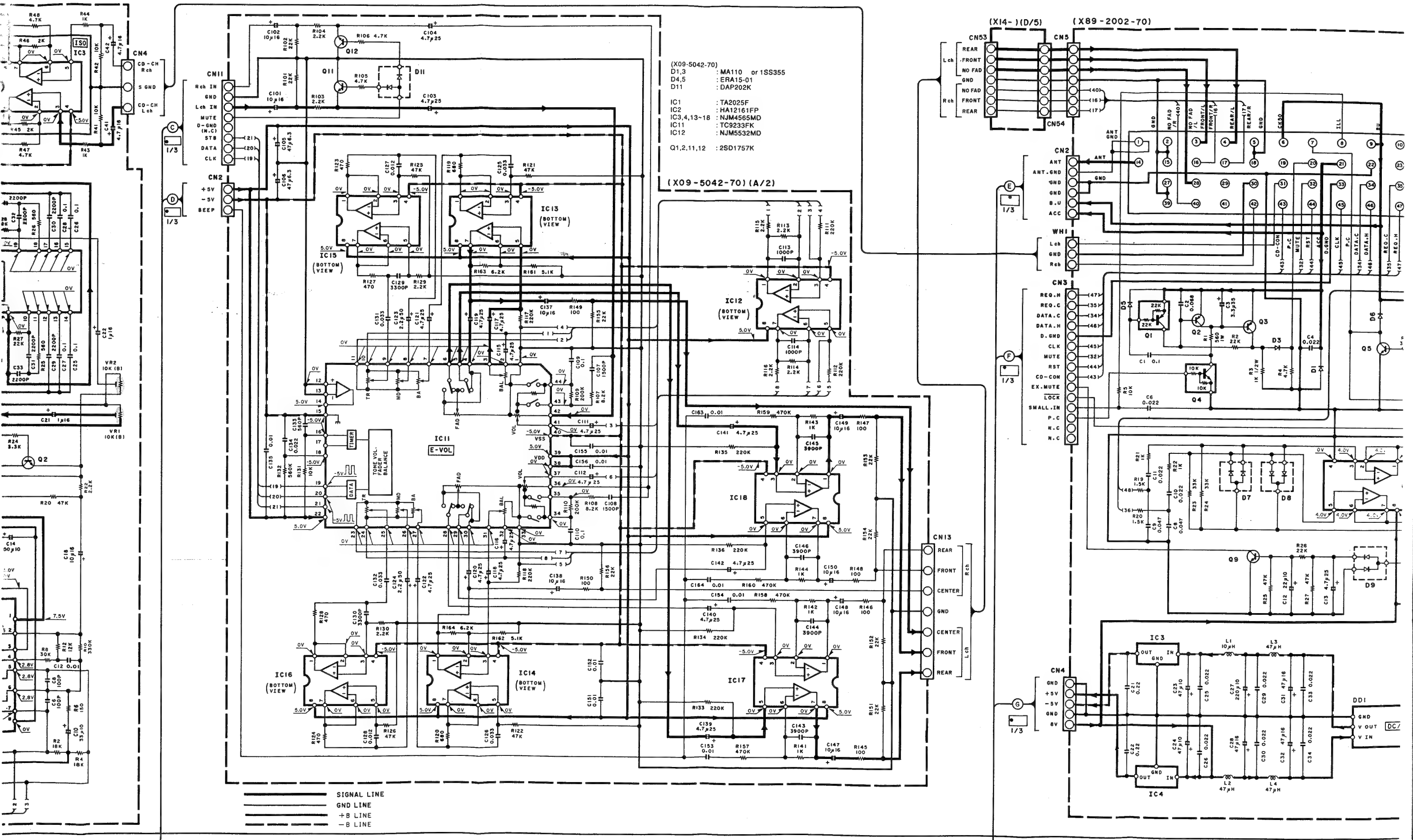
d with a high impedance voltmeter. Values may vary slightly due to variations between units.

nungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die
 erschieden zwischen einzelnen instrumenten oder Geräten u.U. geringfügig.

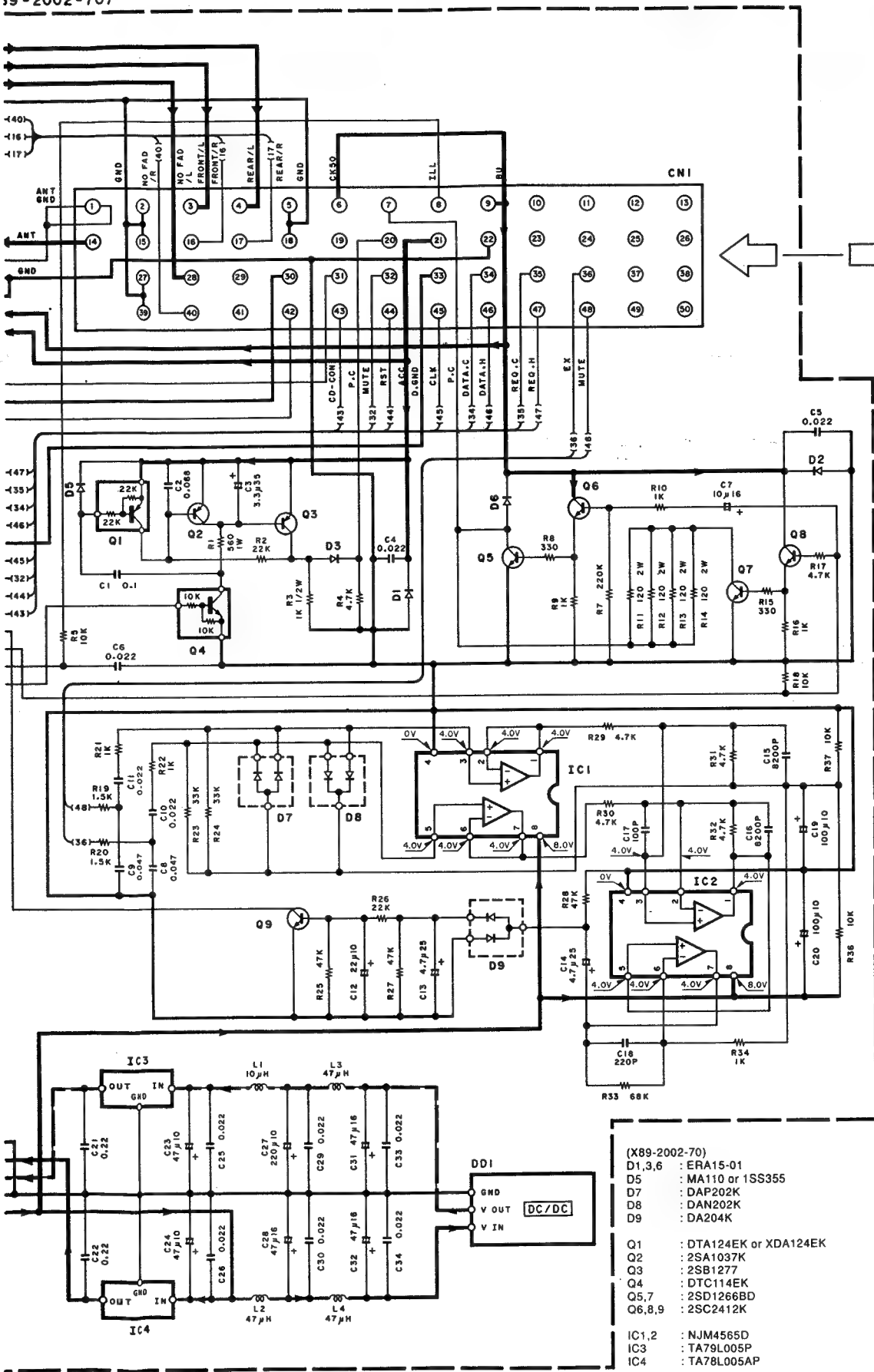
y, replace safety critical components only with manufacturer's recommended parts (refer
 y critical components. To reduce the risk of electric shock, leakage-current or resistance
 out (exposed parts are acceptably insulated from the supply circuit) before the appliance is

Y37-1082-70

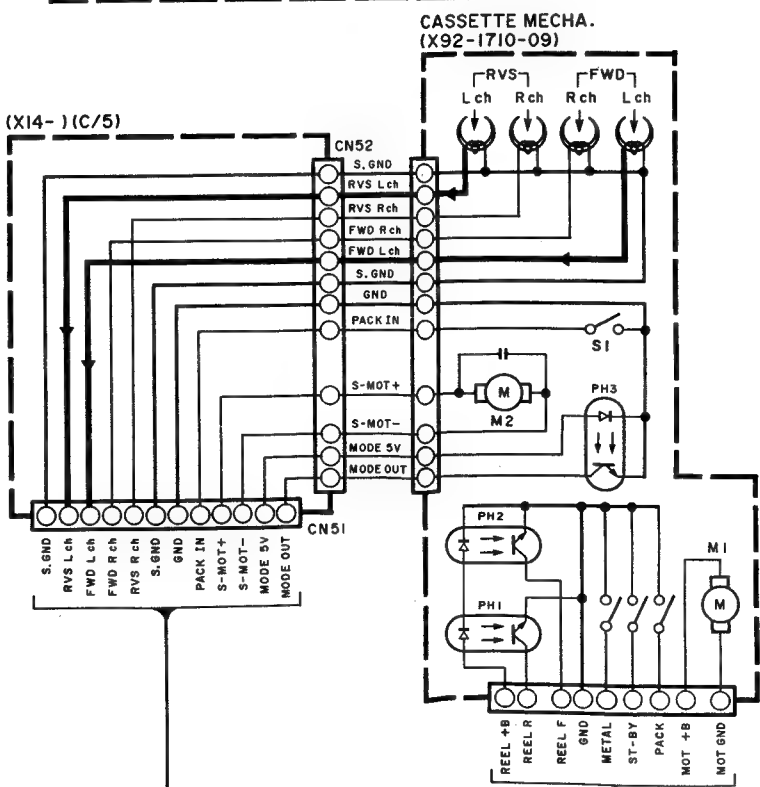
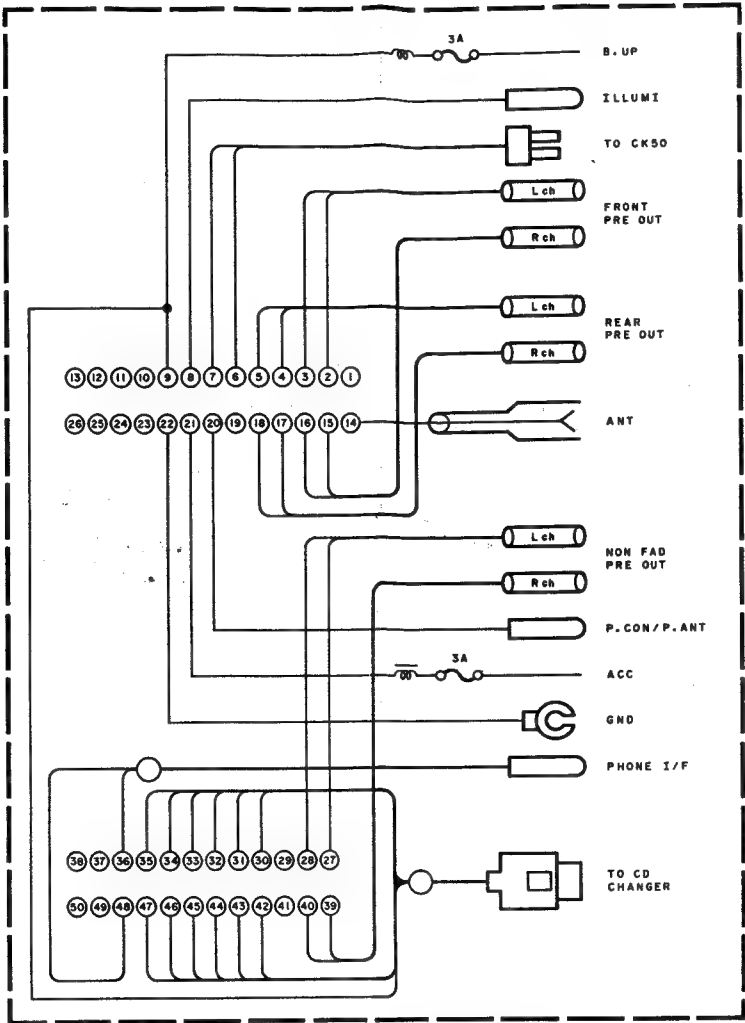
KRC-1054R
KENWOOD



39-2002-70)



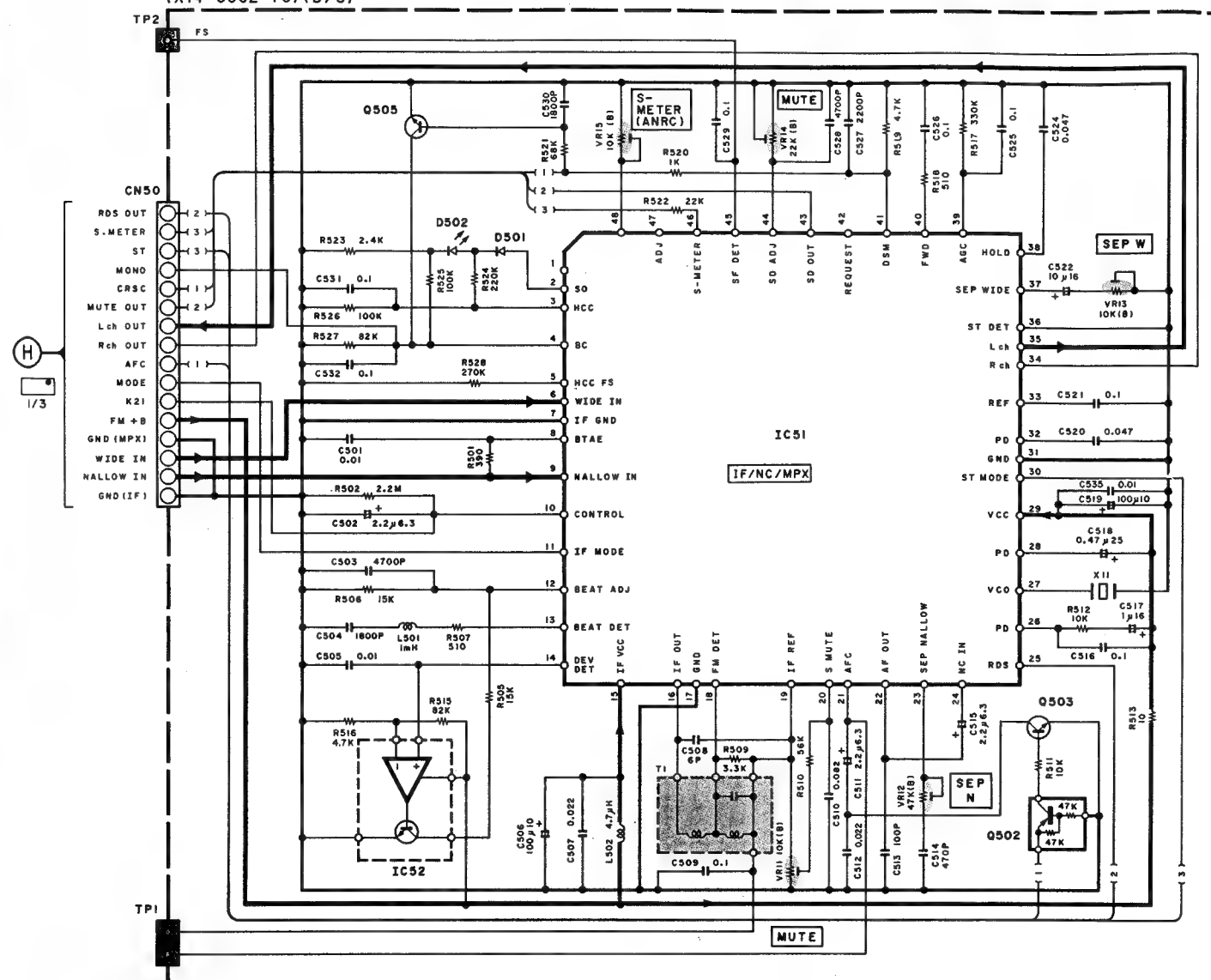
(E30-4033-05)



- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen instrumenten oder Geräten u.U. geringfügig.

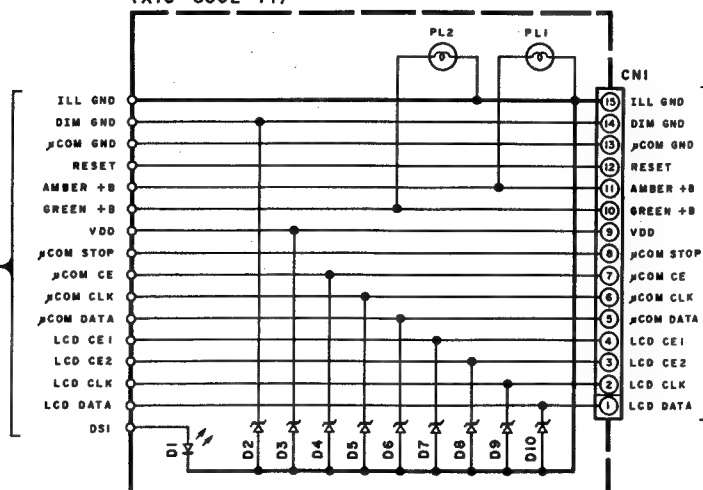
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

(X14-5002-70) (B/5)

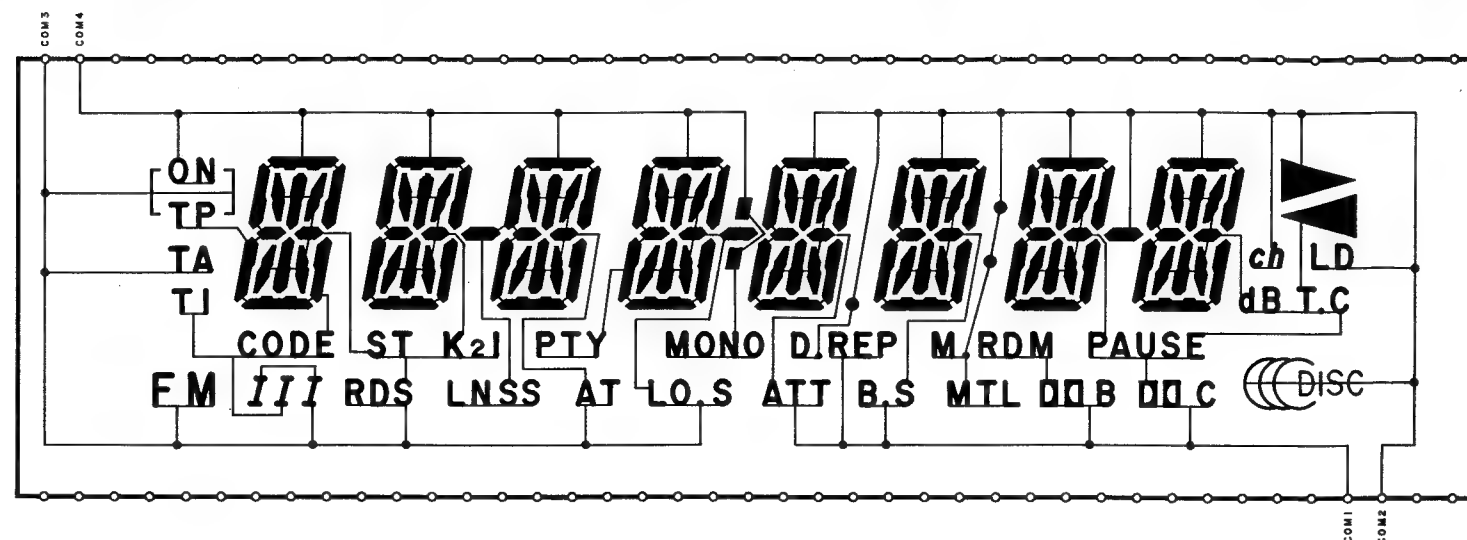


D501 : 1S5355
 D502 : B30-1405-05
 Q502 : DTA144EK
 Q503,504 : 2SC2412K
 X11 : L78-0526-05
 IC51 : KKC04
 IC52 : TA75S393F

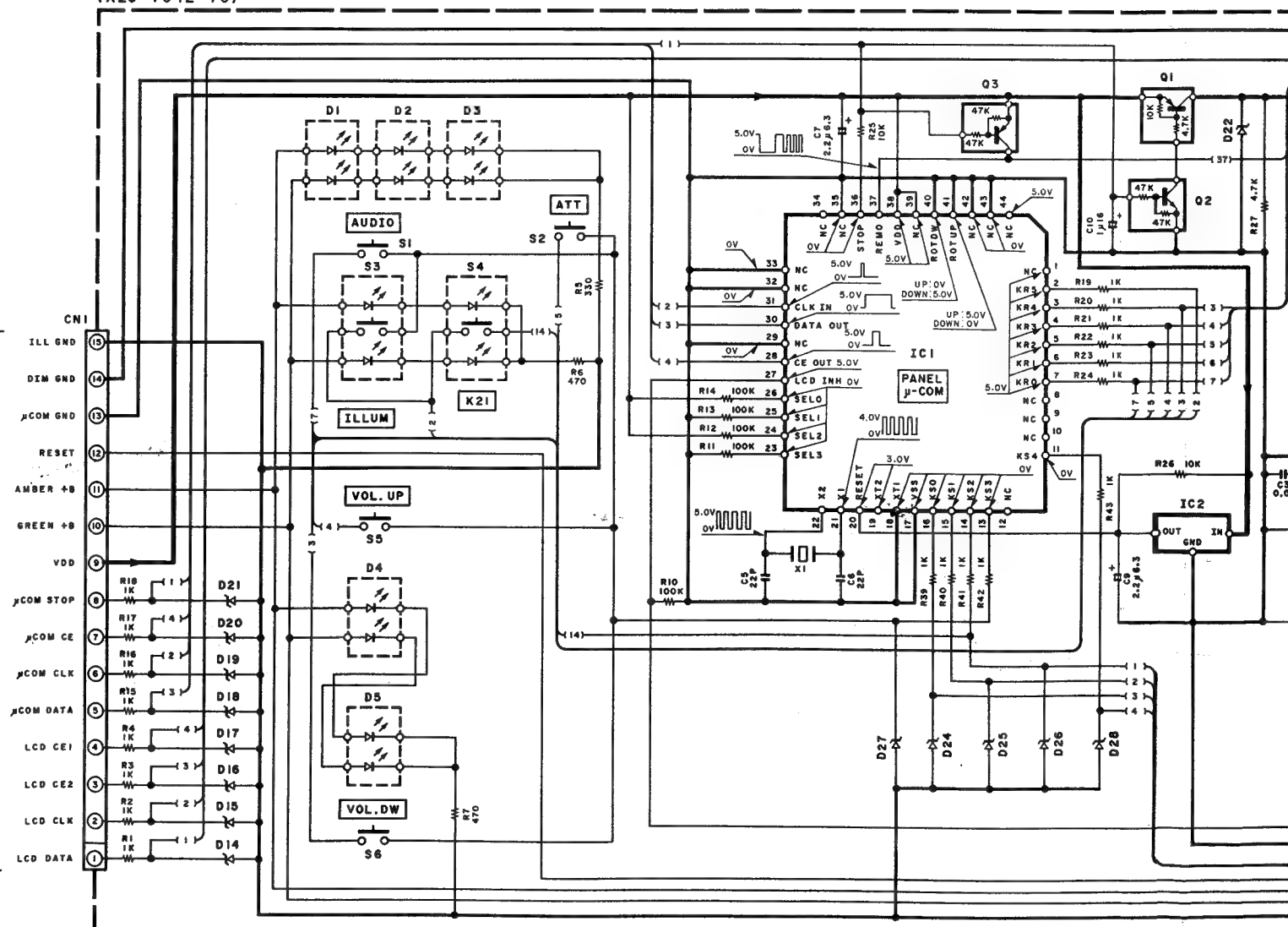
(X13-8502-71)

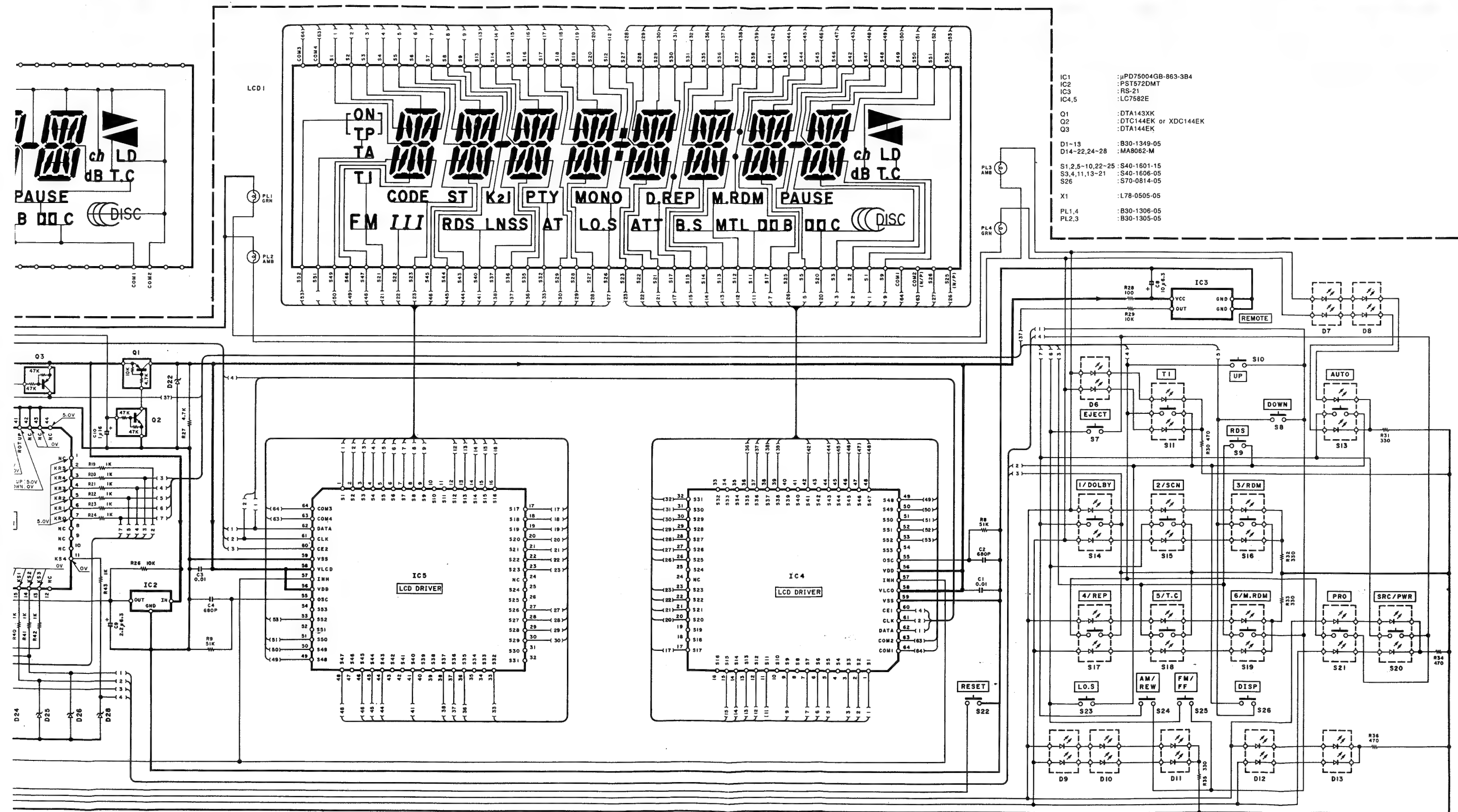


D1 : B30-1393-05
 D2-10 : MA8062-M
 PL1,2 : B30-1406-05



(X25-7042-70)





IC1 : μ PD75004GB-863-3B4
 IC2 : PST572DMT
 IC3 : RS-21
 IC4,5 : LC7582E

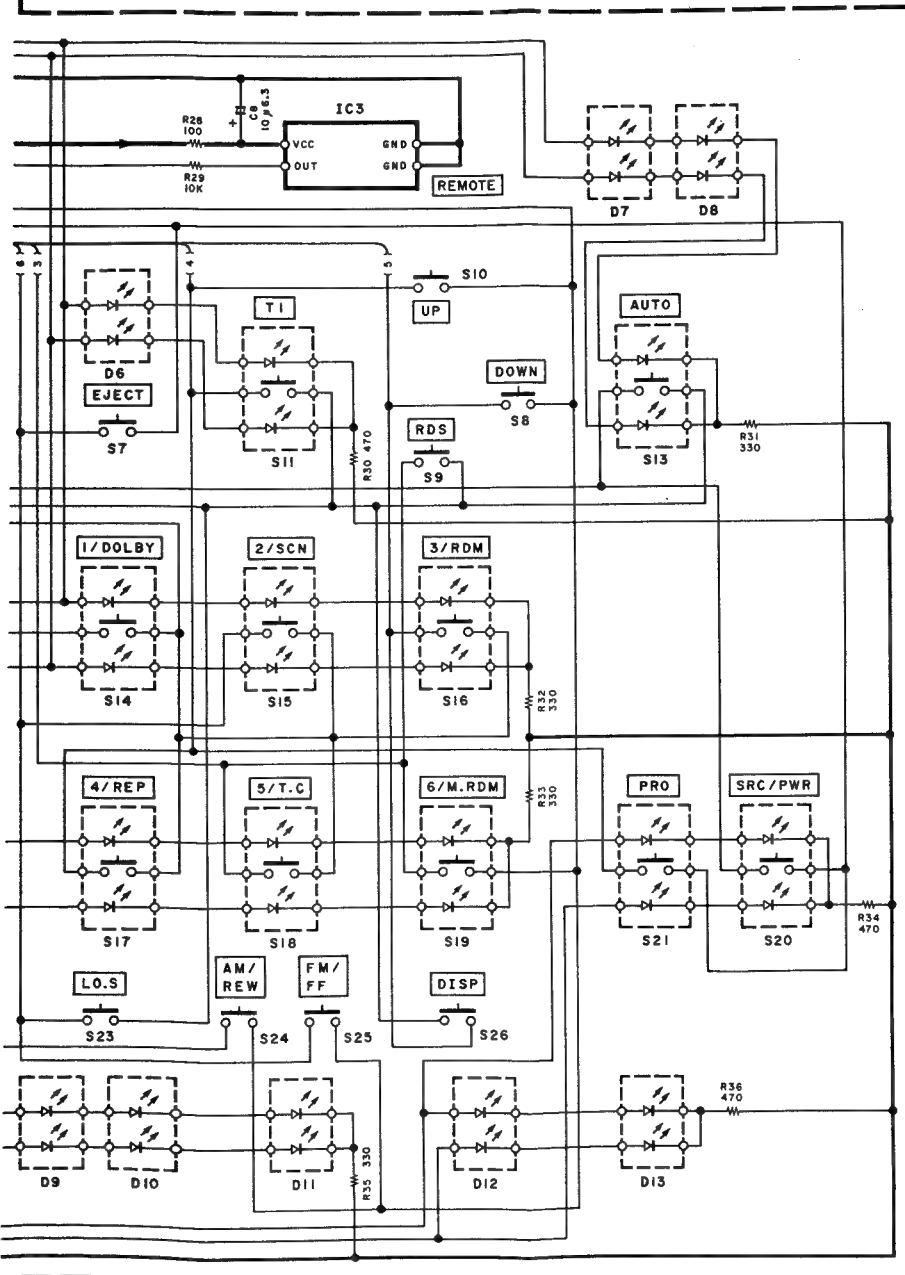
 Q1 : DTA143XK
 Q2 : DTC144EK or XDC144EK
 Q3 : DTA144EK

 D1-13 : B30-1349-05
 D14-22,24-28 : MA8062-M

 S1,2,5-10,22-25 : S40-1601-15
 S3,4,11,13-21 : S40-1606-05
 S26 : S70-0814-05

 X1 : L78-0505-05

 PL1,4 : B30-1306-05
 PL2,3 : B30-1305-05



- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen instrumenten oder Geräten u.U. geringfügig.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). \perp Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

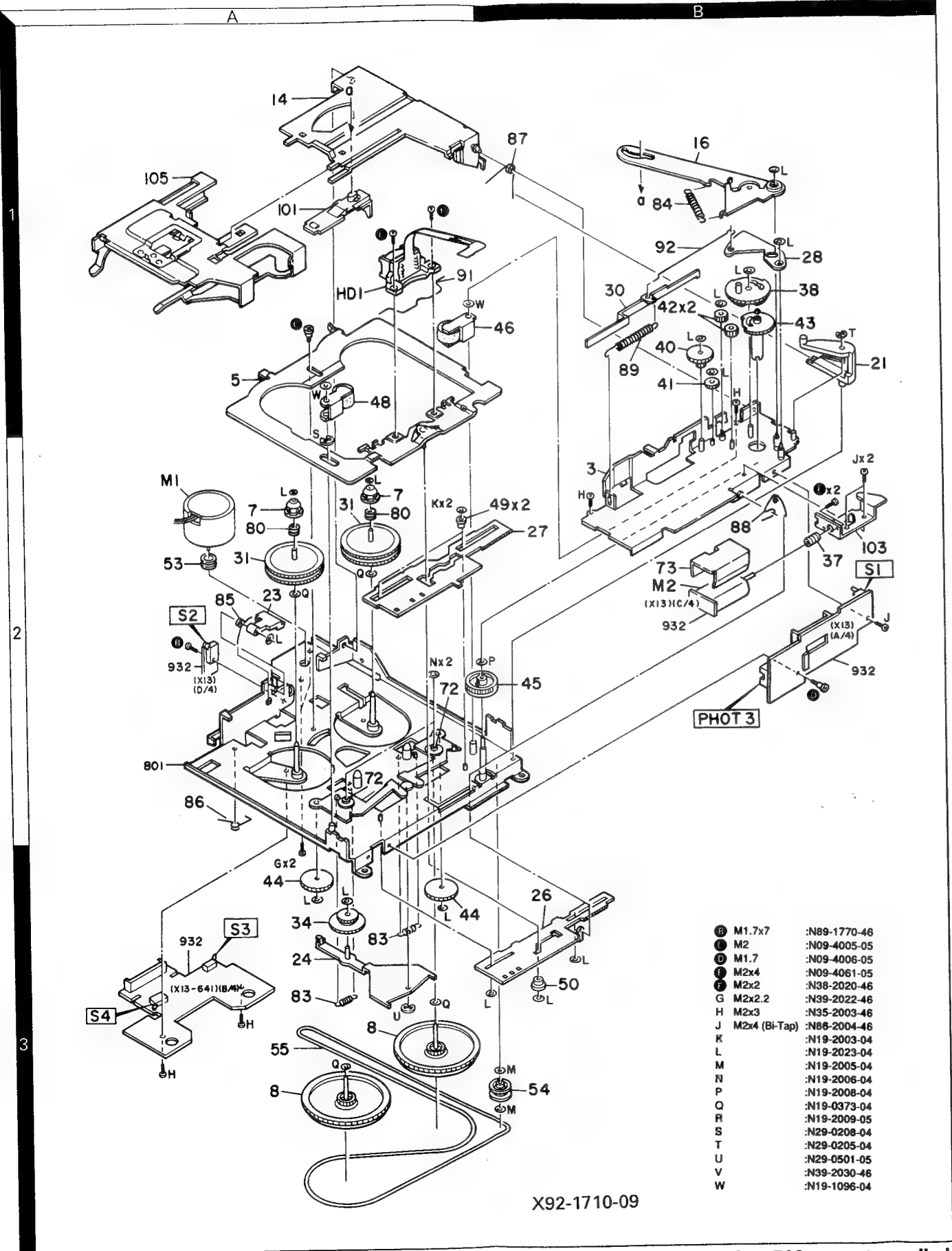
KRC-1054R/954R/927 (3/3)

KRC-1054R
KENWOOD

Y37-1082-70

KRC-1054R

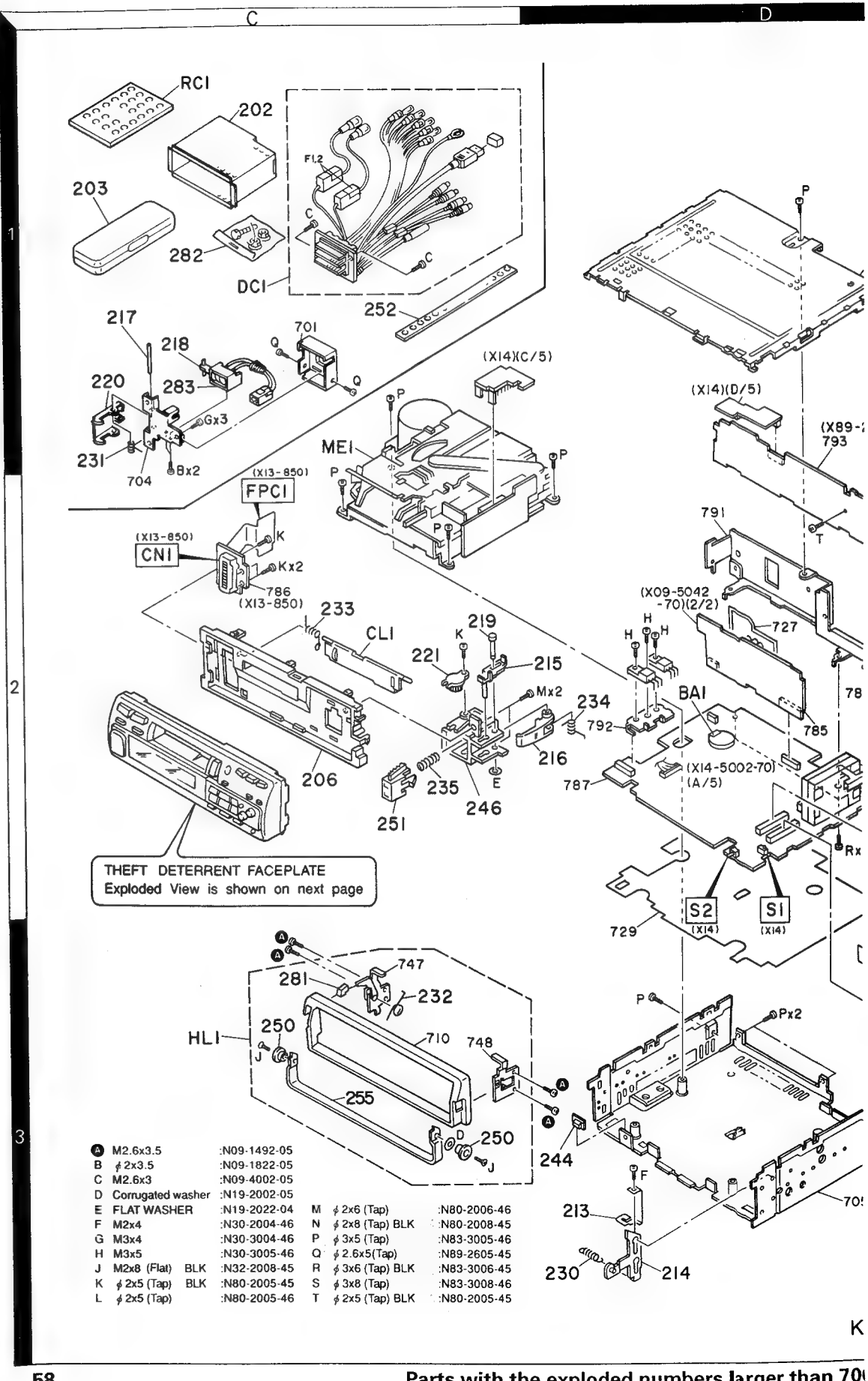
EXPLODED VIEW (MECHANISM)



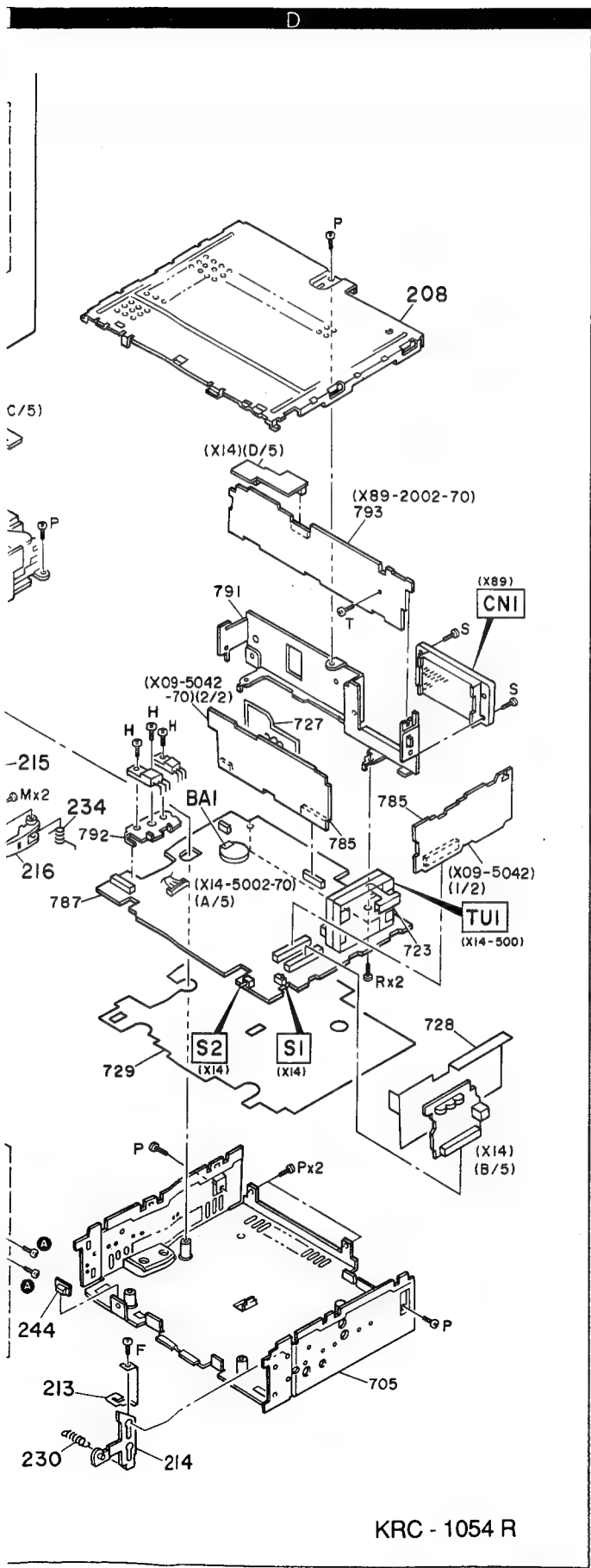
KRC-1054R

KRC-1054R

EXPLODED VIEW (UNIT)

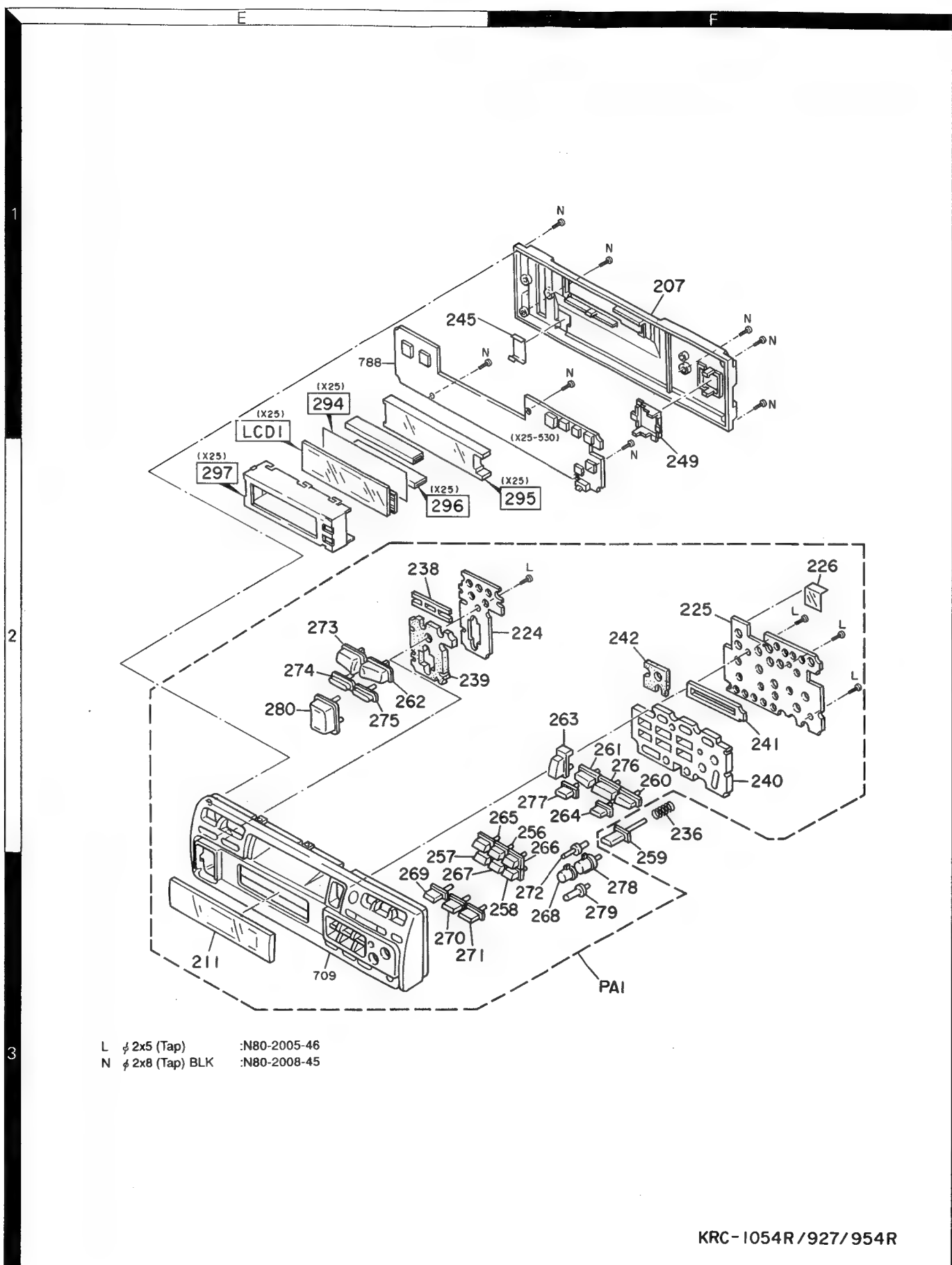


VIEW (UNIT)



exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (FACEPLATE)



Parts with the exploded numbers larger than 700 are not supplied.

KRC-1054R

PARTS LIST

× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Parts
参照番号	位置	新	部品番号	部品
KRC-1054R				
202	1C	*	A01-2565-01	METALLIC CAB
203	1C	*	A02-1421-01	PLASTIC CAB
206	2C	*	A22-1212-11	SUB PANEL
207	1F	*	A46-1213-01	REAR COVER
208	1D	*	A52-0655-02	TOP COVER
CL1	2C		A53-1563-03	CASSETTE LID
PA1	3F	*	A64-0048-12	PANEL ASSY
RC1	1C		A70-0827-05	REMOTE CONTR
211	3E	*	B10-1543-03	FRONT GLASS
-			B46-0100-20	WARRANTY CAR
-			B46-0608-04	ID CARD
-		*	B64-0245-00	INSTRUCTION
-		*	B64-0246-00	INSTRUCTION
-		*	B64-0247-00	INSTRUCTION
HL1	3C	*	B07-2036-02	ESCUTCHEON A
213	3D		D10-2550-24	LEVER
214	3D		D10-2684-24	LEVER
215	2C		D10-2776-14	LEVER ASSY
216	2C		D10-2778-24	ARM
217	1C	*	D21-1346-04	SHAFT
218	1C	*	D21-1419-05	SHAFT
219	2C	*	D21-2127-04	SHAFT
220	1C	*	D32-0162-03	LOCK PLATE
221	2C	*	D39-0211-05	DAMPER
DC1	1C	*	E30-4033-05	CONNECTOR AS
224	2E		F09-1211-04	SHEET
225	2F	*	F09-1212-13	SHEET
226	2F	*	F09-1213-04	SHEET
F1 , 2	1C		F06-3026-05	FUSE(3A)
230	3D		G01-2040-04	EXTENSION SP
231	1C	*	G01-2078-04	TORSION COIL
232	3C	*	G01-2370-04	TORSION COIL
233	2C	*	G01-2525-04	TORSION COIL
234	2D	*	G01-2632-24	TORSION COIL
235	2C		G01-2633-04	COMPRESSION
236	2F		G01-2645-04	COMPRESSION
238	2E		G11-1585-04	CUSHION
239	2E		G11-1586-04	CUSHION
240	2F		G11-1589-03	CUSHION
241	2F		G11-1590-03	CUSHION
242	2F		G11-1591-03	CUSHION
-		*	H10-4430-02	POLYSTYRENE
-		*	H25-0329-04	PROTECTION B
-		*	H25-0337-04	PROTECTION B
-		*	H54-0015-04	ITEM CARTON
-		*	H64-0019-04	OUTER CARTON
244	3D	*	J19-4431-14	LEAD HOLDER
245	1F	*	J19-4435-04	LEAD HOLDER
246	2C	*	J19-4466-22	HOLDER
249	1F	*	J21-7409-04	MOUNTING HAR
250	3C	*	J31-1005-24	COLLAR

E : Europe W : Without Europe P : Canada X : Australia
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KRC-1054R

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KRC-1054R						
202	1C	*	A01-2565-01	METALLIC CABINET		
203	1C		A02-1421-01	PLASTIC CABINET		
206	2C	*	A22-1212-11	SUB PANEL		
207	1F		A46-1213-01	REAR COVER		
208	1D	*	A52-0655-02	TOP COVER		
CL1	2C		A53-1563-03	CASSETTE LID		
PA1	3F	*	A64-0048-12	PANEL ASSY		
RC1	1C		A70-0827-05	REMOTE CONTROLLER ASSY		
211	3E	*	B10-1543-03	FRONT GLASS		
-			B46-0100-20	WARRANTY CARD		
-			B46-0608-04	ID CARD		
-		*	B64-0245-00	INSTRUCTION MANUAL		
-		*	B64-0246-00	INSTRUCTION MANUAL		
-		*	B64-0247-00	INSTRUCTION MANUAL		
HL1	3C	*	B07-2036-02	ESCUTCHEON ASSY		
213	3D		D10-2550-24	LEVER		
214	3D		D10-2684-24	LEVER		
215	2C		D10-2776-14	LEVER ASSY		
216	2C		D10-2778-24	ARM		
217	1C	*	D21-1346-04	SHAFT		
218	1C	*	D21-1419-05	SHAFT		
219	2C		D21-2127-04	SHAFT		
220	1C	*	D32-0162-03	LOCK PLATE		
221	2C		D39-0211-05	DAMPER		
DC1	1C	*	E30-4033-05	CONNECTOR ASSY		
224	2E		F09-1211-04	SHEET		
225	2F	*	F09-1212-13	SHEET		
226	2F		F09-1213-04	SHEET		
F1, 2	1C		F06-3026-05	FUSE(3A)		
230	3D		G01-2040-04	EXTENSION SPRING		
231	1C	*	G01-2078-04	TORSION COIL SPRING		
232	3C		G01-2370-04	TORSION COIL SPRING		
233	2C		G01-2525-04	TORSION COIL SPRING		
234	2D		G01-2632-24	TORSION COIL SPRING		
235	2C		G01-2633-04	COMPRESSION SPRING		
236	2F		G01-2645-04	COMPRESSION SPRING		
238	2E		G11-1585-04	CUSHION		
239	2E		G11-1586-04	CUSHION		
240	2F		G11-1589-03	CUSHION		
241	2F		G11-1590-03	CUSHION		
242	2F		G11-1591-03	CUSHION		
-		*	H10-4430-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0329-04	PROTECTION BAG (280X450X0.03)		
-			H25-0337-04	PROTECTION BAG (180X300X0.03)		
-		*	H54-0015-04	ITEM CARTON CASE		
-		*	H64-0019-04	OUTER CARTON CASE		
244	3D	*	J19-4431-14	LEAD HOLDER		
245	1F		J19-4435-04	LEAD HOLDER		
246	2C		J19-4466-22	HOLDER		
249	1F		J21-7409-04	MOUNTING HARDWARE		
250	3C		J31-1005-24	COLLAR		

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K : U.S.A. and Canada M : Without Europe, U.S.A. and Canada

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KRC-1054R

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
251	2C		J52-0037-14	MAGNET CATCH		
252	1C		J54-0059-04	STAY		
255	1C		K01-0601-03	HANDLE		
256	2F		K24-1177-04	KNØB (2, SCN)		
257	3E		K24-1179-04	KNØB (4, REP)		
258	3F		K24-1181-04	KNØB (6, M.RDM)		
259	3F		K24-1197-04	KNØB (OPEN)		
260	2F		K24-1255-04	KNØB (>>I +)		
261	2F		K24-1256-04	KNØB (- I<<)		
262	2E		K24-1262-04	KNØB (ATT)		
263	2F		K24-1266-04	KNØB (EJECT)		
264	2F		K24-1270-04	KNØB (AUTO)		
265	2F		K24-1271-04	KNØB (1, B.CNR)		
266	3F		K24-1272-04	KNØB (3, RDM)		
267	3E		K24-1273-04	KNØB (5, D.S)		
268	3F		K24-1274-04	KNØB (PRO)		
269	3E		K24-1275-04	KNØB (LO.S)		
270	3E		K24-1276-04	KNØB (-AM)		
271	3E		K24-1277-04	KNØB (FM+)		
272	3F		K24-1278-04	KNØB (RESET)		
273	2E	*	K24-1279-04	KNØB (AUDIO)		
274	2E	*	K24-1280-04	KNØB (ILLUM)		
275	2E	*	K24-1281-04	KNØB (K2I)		
276	2F	*	K24-1282-04	KNØB (RDS)		
277	2F	*	K24-1284-04	KNØB (TI)		
278	3F	*	K24-1286-04	KNØB (SRC)		
279	3F		K24-1287-04	KNØB (DISP)		
280	2E		K25-0624-04	KNØB (VOL)		
281	3C		K27-3510-04	KNØB (LEVER)		
282	1C		N99-0277-05	SCREW SET		
A	3C		N09-1492-05	MACHINE SCREW (2.6X3.5)		
B	1C		N09-1822-05	STEPPED SCREW (2X3.5)		
C	1C		N09-4002-05	STEPPED SCREW (M2.6X3)		
D	3C		N19-2002-05	CORRUGATED WASHER		
E	2C		N19-2022-04	FLAT WASHER		
F	3D		N30-2004-46	PAN HEAD MACHINE SCREW		
G	1C		N30-3004-46	PAN HEAD MACHINE SCREW		
H	2D		N30-3005-46	PAN HEAD MACHINE SCREW		
J	3C		N32-2008-45	FLAT HEAD MACHIN SCREW		
K	2C		N80-2005-45	PAN HEAD TAPTITE SCREW		
L	2F		N80-2005-46	PAN HEAD TAPTITE SCREW		
M	2C		N80-2006-46	PAN HEAD TAPTITE SCREW		
N	1F		N80-2008-45	PAN HEAD TAPTITE SCREW		
P	1C, 3D		N83-3005-46	PAN HEAD TAPTITE SCREW		
Q	1C		N89-2605-46	BINDING HEAD TAPTITE SCREW		
283	1C	*	T94-0408-05	MAGNETIC PLUNGER		
BA1	2D		W09-0719-05	BATTERY		
ME1	2C	*	X92-1710-09	MECHANISM ASSY		
AUDIO UNIT (X09-5042-70)						
C1 -4			CC73FCH1H271J	CHIP C 270PF J		
C5 -8			CC73FCH1H101J	CHIP C 100PF J		

E : Europe W : Without Europe P : Canada X : Australia

K : U.S.A. and Canada M : Without Europe, U.S.A. and Canada

⚠ indicates safety critical components.

PARTS LIST

* New Parts

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AUDIO UNIT (X09-5042-70)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C9 ,10 C11 ,12 C13 C14 C16			CE04CWOJ330M C91-2040-05 C90-2595-05 CE04CW1A101M CE04CWOJ101M	ELECTRO 33UF 6.3WV CERAMIC 0.010UF Z ELECTRO 4.7UF 16WV ELECTRO 100UF 10WV ELECTRO 100UF 6.3WV		
C17 ,18 C19 ,20 C21 -24 C25 -28 C29 -34			C90-2536-05 C93-1044-05 C90-2532-05 CK73EB1E104K C93-1044-05	ELECTRO 10UF 16WV CERAMIC 2200PF K ELECTRO 1UF 16WV CHIP C 0.10UF K CERAMIC 2200PF K		
C35 C36 ,37 C38 ,39 C41 ,42 C43 -46			CE04CW1A220M CE04CWOJ470M CE04CWOJ220M C90-2535-05 CC73FCH1H271J	ELECTRO 22UF 10WV ELECTRO 47UF 6.3WV ELECTRO 22UF 6.3WV ELECTRO 4.7UF 16WV CHIP C 270PF J		
C47 ,48 C101,102 C103,104 C105,106 C107,108			CC73FSL1H102J CE04MW1C100M CE04MW1E4R7M CE04MW0J470M CK73FB1H152K	CHIP C 1000PF J ELECTRO 10UF 16WV ELECTRO 4.7UF 25WV ELECTRO 47UF 6.3WV CHIP C 1500PF K		
C109,110 C111,112 C113,114 C115-122 C123,124			CK73EB1E104K CE04MW1E4R7M CC73FSL1H102J CE04MW1E4R7M CE04MW1H2R2M	CHIP C 0.10UF K ELECTRO 4.7UF 25WV CHIP C 1000PF J ELECTRO 4.7UF 25WV ELECTRO 2.2UF 50WV		
C125,126 C127,128 C129,130 C131,132 C133			CK73FB1E333KTA CK73FB1H123K CK73FB1H332K CK73EB1E333K CK73FB1H561K	CHIP C 0.033UF K CHIP C 0.012UF K CHIP C 3300PF K CHIP C 0.033UF K CHIP C 560PF K		
C134 C135 C137,138 C139-142 C143-146		*	CK73FB1H223KTA CK73EB1H103K CE04MW1C100M CE04MW1E4R7M C93-1050-05	CHIP C 0.022UF K CHIP C 0.01UF K ELECTRO 10UF 16WV ELECTRO 4.7UF 25WV CERAMIC CAPACITOR (TYPE 2)		
C147-150 C151-153 C154 C155,156 C163			CE04MW1C100M CK73FB1H103K CK73EB1H103K CK73FB1H103K CK73FB1H103K	ELECTRO 10UF 16WV CHIP C 0.010UF K CHIP C 0.01UF K CHIP C 0.010UF K CHIP C 0.010UF K		
C164			CK73EB1H103K	CHIP C 0.01UF K		
CN1 CN2 CN3 CN4 CN11			E40-9102-05 E40-9098-05 E40-5461-05 E40-3261-05 E40-9096-05	SOCKET FOR PIN ASSY SOCKET FOR PIN ASSY SOCKET FOR PIN ASSY PIN ASSY SOCKET FOR PIN ASSY		
CN12 CN13 TP1			E40-9091-05 E40-9095-05 E40-9218-05	SOCKET FOR PIN ASSY SOCKET FOR PIN ASSY PIN ASSY		
R1 -4 R5 ,6 R7 ,8 R9 ,10 R11 ,12		*	R92-2036-05 R92-2116-05 R92-2117-05 RK73FB2A334J R92-2035-05	CHIP R 18K D 1/10W METAL FILM RESISTOR METAL FILM RESISTOR CHIP R 330K J 1/10W CHIP R 12K D 1/10W		

E : Europe W : Without Europe P : Canada X : Australia

K : U.S.A. and Canada M : Without Europe, U.S.A. and Canada

△ indicates safety critical components.

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AUDIO UNIT (X09-5042-70)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
R13			RK73FB2A473J	CHIP R 47K J 1/10W		
R16			RK73FB2A103J	CHIP R 10K J 1/10W		
R17			RK73FB2A331J	CHIP R 330 J 1/10W		
R19 ,20			RK73FB2A473J	CHIP R 47K J 1/10W		
R21 ,22			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R23 ,24			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R25 ,26			R92-2026-05	560 D 1/10W		
R27 ,28			R92-2038-05	CHIP R 22K D 1/10W		
R29 ,30			RK73FB2A223J	CHIP R 22K J 1/10W		
R34			R92-2036-05	CHIP R 18K D 1/10W		
R35 ,36			R92-2033-05	CHIP RD R 5.1K D 1/10W		
R37 ,38			R92-2044-05	2.7K D 1/10W		
R41 ,42			RK73FB2A103J	CHIP R 10K J 1/10W		
R43 ,44			R92-2028-05	CHIP R 1K D 1/10W		
R45 ,46			R92-2029-05	CHIP R 2.0K D 1/10W		
R47 -56			R92-2032-05	CHIP R 4.7K D 1/10W		
R101,102			RK73FB2A223J	CHIP R 22K J 1/10W		
R103,104			R92-2030-05	CHIP R 2.2K D 1/10W		
R105,106			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R107,108			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R109,110			RK73FB2A204J	CHIP R 200K J 1/10W		
R111,112			RK73FB2A224J	CHIP R 220K J 1/10W		
R113-116			R92-2030-05	CHIP R 2.2K D 1/10W		
R117,118			RK73FB2A224J	CHIP R 220K J 1/10W		
R119,120			RK73FB2A681J	CHIP R 680 J 1/10W		
R121,122			RK73FB2A473J	CHIP R 47K J 1/10W		
R123,124			RK73FB2A471J	CHIP R 470 J 1/10W		
R125,126			RK73FB2A473J	CHIP R 47K J 1/10W		
R127,128			RK73FB2A471J	CHIP R 470 J 1/10W		
R129,130			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R131			RK73EB2B103J	CHIP R 10K J 1/8W		
R132		*	RK73EB2B564J	CHIP R 560K J 1/8W		
R133-136			RK73FB2A224J	CHIP R 220K J 1/10W		
R141-144			R92-2028-05	CHIP R 1K D 1/10W		
R145-150		*	R92-2024-05	METAL FILM RESISTOR		
R151-156			RK73FB2A223J	CHIP R 22K J 1/10W		
R157-160			RK73FB2A474J	CHIP R 470K J 1/10W		
R161,162			R92-2033-05	CHIP RD R 5.1K D 1/10W		
R163,164			R92-2071-05	CHIP R 6.2K D 1/10W		
VR1 ,2			R12-3100-05	TRIMMING POT.(10K)		
W1 -3			R92-2053-05	CHIP R 0 J 1/8W		
D1 -3			MA110	DIODE		
D1 -3			1SS355	DIODE		
D4 ,5			ERA15-01	DIODE		
D11			DAP202K	DIODE		
IC1		*	TA2025F	IC		
IC2			HA12161FP	IC		
IC3 ,4			NJM4565MD	IC(OP AMP X2)		
IC11			TC9233FK	IC		
IC12			NJM5532MD	IC(OP AMP)		
IC13-18			NJM4565MD	IC(OP AMP X2)		
Q1 ,2			2SD1757K	TRANSISTOR		
Q11 ,12			2SD1757K	TRANSISTOR		

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AUDIO UNIT (X09-5042-70)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C9 ,10 C11 ,12 C13 C14 C16			CE04CW0J330M C91-2040-05 C90-2595-05 CE04CW1A101M CE04CW0J101M	ELECTR0 33UF 6.3WV CERAMIC 0.010UF Z ELECTR0 4.7UF 16WV ELECTR0 100UF 10WV ELECTR0 100UF 6.3WV		
C17 ,18 C19 ,20 C21 -24 C25 -28 C29 -34			C90-2536-05 C93-1044-05 C90-2532-05 CK73EB1E104K C93-1044-05	ELECTR0 10UF 16WV CERAMIC 2200PF K ELECTR0 1UF 16WV CHIP C 0.10UF K CERAMIC 2200PF K		
C35 C36 ,37 C38 ,39 C41 ,42 C43 -46			CE04CW1A220M CE04CW0J470M CE04CW0J220M C90-2535-05 CC73FCH1H271J	ELECTR0 22UF 10WV ELECTR0 47UF 6.3WV ELECTR0 22UF 6.3WV ELECTR0 4.7UF 16WV CHIP C 270PF J		
C47 ,48 C101,102 C103,104 C105,106 C107,108			CC73FSL1H102J CE04MW1C100M CE04MW1E4R7M CE04MW0J470M CK73FB1H152K	CHIP C 1000PF J ELECTR0 10UF 16WV ELECTR0 4.7UF 25WV ELECTR0 47UF 6.3WV CHIP C 1500PF K		
C109,110 C111,112 C113,114 C115-122 C123,124			CK73EB1E104K CE04MW1E4R7M CC73FSL1H102J CE04MW1E4R7M CE04MW1H2R2M	CHIP C 0.10UF K ELECTR0 4.7UF 25WV CHIP C 1000PF J ELECTR0 4.7UF 25WV ELECTR0 2.2UF 50WV		
C125,126 C127,128 C129,130 C131,132 C133			CK73FB1E333KTA CK73FB1H123K CK73FB1H332K CK73EB1E333K CK73FB1H561K	CHIP C 0.033UF K CHIP C 0.012UF K CHIP C 3300PF K CHIP C 0.033UF K CHIP C 560PF K		
C134 C135 C137,138 C139-142 C143-146		*	CK73FB1H223KTA CK73EB1H103K CE04MW1C100M CE04MW1E4R7M C93-1050-05	CHIP C 0.022UF K CHIP C 0.01UF K ELECTR0 10UF 16WV ELECTR0 4.7UF 25WV CERAMIC CAPACITOR (TYPE 2)		
C147-150 C151-153 C154 C155,156 C163			CE04MW1C100M CK73FB1H103K CK73EB1H103K CK73FB1H103K CK73FB1H103K	ELECTR0 10UF 16WV CHIP C 0.010UF K CHIP C 0.01UF K CHIP C 0.010UF K CHIP C 0.010UF K		
C164			CK73EB1H103K	CHIP C 0.01UF K		
CN1 CN2 CN3 CN4 CN11			E40-9102-05 E40-9098-05 E40-5461-05 E40-3261-05 E40-9096-05	SOCKET FOR PIN ASSY SOCKET FOR PIN ASSY SOCKET FOR PIN ASSY PIN ASSY SOCKET FOR PIN ASSY		
CN12 CN13 TP1			E40-9091-05 E40-9095-05 E40-9218-05	SOCKET FOR PIN ASSY SOCKET FOR PIN ASSY PIN ASSY		
R1 -4 R5 ,6 R7 ,8 R9 ,10 R11 ,12		* *	R92-2036-05 R92-2116-05 R92-2117-05 RK73FB2A334J R92-2035-05	CHIP R 18K D 1/10W METAL FILM RESISTOR METAL FILM RESISTOR CHIP R 330K J 1/10W CHIP R 12K D 1/10W		

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SUB-CIRCUIT UNIT (X13-6410-03)						
C1			CF92V1H224J	MF 0.22UF J		
CN1			E40-9100-05	SOCKET FOR PIN ASSY		
CN2			E40-5065-05	PIN ASSY		
CN3			E40-9115-05	FLAT CABLE CONNECTOR		
J1 , 2			E31-8052-05	LEAD WIRE		
S1			S40-1140-05	PUSH SWITCH		
S2 - 4			S46-1601-05	LEAF SWITCH		
PH1 , 2			T95-0201-05	OPTO ISOLATOR		
PH3			T95-0202-05	OPTO ISOLATOR		
SUB-CIRCUIT UNIT (X13-8502-71)						
D1			B30-1393-05	LED		
PL1 , 2		*	B30-1406-05	LAMP		
CN1			B58-0818-05	RECTANGULAR RECEPTACLE		
FPC1	1C		J84-0037-03	FLEXIBLE PRINTED WIRING BOARD		
D2 - 10			MA8062-M	ZENER DIODE		
SYNTHESIZER UNIT (X14-5002-70)						
D502		*	B30-1405-05	LED		
C1		*	C90-2791-05	ALUMINIUM ELECTROLYTIC C.		
C2			CE04DW1V221M	ELECTRO 220UF	35WV	
C3 , 4			CK73EB1H104K	CHIP C 0.10UF	K	
C5 , 6			CK73FB1H103K	CHIP C 0.010UF	K	
C7			CE04CW0J220M	ELECTRO 22UF	6.3WV	
C8			CK73FB1H223KTA	CHIP C 0.022UF	K	
C9 , 10			CC73FCH1H270J	CHIP C 27PF	J	
C11			CE04CW1A101M	ELECTRO 100UF	10WV	
C13 , 14			CK73FB1H223KTA	CHIP C 0.022UF	K	
C15			CK73EB1E683K	CHIP C 0.068UF	K	
C17 , 18			CK73FB1H153KTA	CHIP C 0.015UF	K	
C19 , 20			CK73FB1H332K	CHIP C 3300PF	K	
C21			CK73EB1E823K	CHIP C 0.082UF	K	
C22			CE04CW1A101M	ELECTRO 100UF	10WV	
C23			C90-2525-05	NP-ELECT 2.2UF	35WV	
C24			CK73FB1H223KTA	CHIP C 0.022UF	K	
C25			CK73FB1H103K	CHIP C 0.010UF	K	
C26			CE04CW1A101M	ELECTRO 100UF	10WV	
C27			CF92V1H332J	MF 3300PF	J	
C28		*	C91-2042-05	CERAMIC 0.015UF	Z	
C29			CK73FB1H223KTA	CHIP C 0.022UF	K	
C30 , 31			CC73FSL1H102J	CHIP C 1000PF	J	
C32 , 33			C90-2595-05	ELECTRO 4.7UF	16WV	
C34			CK73FB1H103K	CHIP C 0.010UF	K	
C35			CK73FB1H102K	CHIP C 1000PF	K	
C36			CE04CW1A220M	ELECTRO 22UF	10WV	
C37			CE04CW0J220M	ELECTRO 22UF	6.3WV	
C38			C90-2592-05	ELECTRO 10UF	6.3WV	
C39			C90-2606-05	ELECTRO 0.47UF	50WV	
C40			C92-0005-05	ELECTRO 2.2UF	6.3WV	
C41			C93-0025-05	CERAMIC 0.22UF	K	

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SYNTHESIZER UNIT (X14-5002-70)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C42			CK73EB1E563K	CHIP C 0.056UF K		
C43			CK73FB1H103K	CHIP C 0.010UF K		
C44			CK73FB1H102K	CHIP C 1000PF K		
C45			CC73FCH1H270J	CHIP C 27PF J		
C46 , 47			C90-2592-05	ELECTR0 10UF 6.3WV		
C48			C92-0005-05	ELECTR0 2.2UF 6.3WV		
C49 , 50			CK73FB1H103K	CHIP C 0.010UF K		
C51			CK73FB1H561K	CHIP C 560PF K		
C52			CC73FCH1H820J	CHIP C 82PF J		
C53			CC73FCH1H470J	CHIP C 47PF J		
C54			CE04CW0J220M	ELECTR0 22UF 6.3WV		
C55 , 56			CK73FB1H223KTA	CHIP C 0.022UF K		
C57			CE04CW1C470M	ELECTR0 47UF 16WV		
C58			CK73FB1H223KTA	CHIP C 0.022UF K		
C59 , 60			CK73FB1H103K	CHIP C 0.010UF K		
C61 , 62			C93-0025-05	CERAMIC 0.22UF K		
C63			CK73FB1H223KTA	CHIP C 0.022UF K		
C64			CE04MW1A101M	ELECTR0 100UF 10WV		
C65			C90-2608-05	ELECTR0 1.0UF 50WV		
C66			CK73FB1H223KTA	CHIP C 0.022UF K		
C67			CK73FB1H103K	CHIP C 0.010UF K		
C69			CK73FB1E473KTA	CHIP C 0.047UF K		
C70			C90-2594-05	ELECTR0 10UF 10WV		
C71			C90-2592-05	ELECTR0 10UF 6.3WV		
C72			CK73EB1E104K	CHIP C 0.10UF K		
C73			CK73FB1H103K	CHIP C 0.010UF K		
C98			CK73FB1H103K	CHIP C 0.010UF K		
C100, 101			CK73FB1H103K	CHIP C 0.010UF K		
C102			CE04CW0J220M	ELECTR0 22UF 6.3WV		
C103			CK73FB1H223KTA	CHIP C 0.022UF K		
C104			C90-2608-05	ELECTR0 1.0UF 50WV		
C105			C93-0025-05	CERAMIC 0.22UF K		
C106, 107			CC73FCH1H100D	CHIP C 10PF D		
C108			C90-1263-05	ELECTR0 100UF 16WV		
C109			CK73FB1H223KTA	CHIP C 0.022UF K		
C111			CK73FB1H223KTA	CHIP C 0.022UF K		
C112			CK73FB1H103K	CHIP C 0.010UF K		
C114			CK73FB1H223KTA	CHIP C 0.022UF K		
C115			CK73FB1H103K	CHIP C 0.010UF K		
C116			CE04CW0J470M	ELECTR0 47UF 6.3WV		
C117			CK73FB1H331K	CHIP C 330PF K		
C118			CK73FB1E333KTA	CHIP C 0.033UF K		
C119			CK73FB1H102K	CHIP C 1000PF K		
C120, 121			CK73FB1H103K	CHIP C 0.010UF K		
C501			CK73FB1H103K	CHIP C 0.010UF K		
C502			C92-0005-05	ELECTR0 2.2UF 6.3WV		
C503			CK73FB1H103K	CHIP C 0.010UF K		
C504			CK73FB1H182K	CHIP C 1800PF K		
C505			CK73FB1H103K	CHIP C 0.010UF K		
C506			CE04DW1A101M	ELECTR0 100UF 10WV		
C507			CK73FB1H223KTA	CHIP C 0.022UF K		
C508			CC73FCH1H070D	CHIP C 7PF D		
C509			CK73EB1E104K	CHIP C 0.10UF K		
C510			CK73EB1E823K	CHIP C 0.082UF K		
C511			C92-0005-05	ELECTR0 2.2UF 6.3WV		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C512			CK73EB1H223K	CHIP C 0.022UF K		
C513			CC73FCH1H101J	CHIP C 100PF J		
C514			CK73FB1H471K	CHIP C 470PF K		
C515			C92-0005-05	ELECTRØ 2.2UF 6.3WV		
C516			CK73EB1E104K	CHIP C 0.10UF K		
C517			C92-0004-05	ELECTRØ 1.0UF 16WV		
C518			C92-0003-05	CHIP TAN 0.47UF 25WV		
C519			CE04NW1A101M	ELECTRØ 100UF 10WV		
C520			CK73EB1E473K	CHIP C 0.047UF K		
C521			CK73EB1E104K	CHIP C 0.10UF K		
C522, 523			CE04NW1C100M	ELECTRØ 10UF 16WV		
C524			CK73EB1E473K	CHIP C 0.047UF K		
C525, 526			CK73EB1E104K	CHIP C 0.10UF K		
C527			CK73FB1H222K	CHIP C 2200PF K		
C528			CK73FB1H472K	CHIP C 4700PF K		
C529			CK73EB1E104K	CHIP C 0.10UF K		
C530			CK73FB1E473KTA	CHIP C 0.047UF K		
C531, 532			CK73EB1E104K	CHIP C 0.10UF K		
C533			CK73FB1H102K	CHIP C 1000PF K		
C534			CK73FB1H103K	CHIP C 0.010UF K		
CN1		*	E40-9249-05	FLAT CABLE CONNECTOR		
CN2		*	E40-9085-05	PIN ASSY		
CN3			E40-9083-05	PIN ASSY		
CN4		*	E40-9079-05	PIN ASSY		
CN5			E40-9077-05	PIN ASSY		
CN6		*	E40-9072-05	PIN ASSY		
CN50		*	E40-9104-05	SOCKET FOR PIN ASSY		
CN51			E40-5452-05	PIN ASSY		
CN52			E40-9081-05	PIN ASSY		
CN53, 54			E40-9076-05	PIN ASSY		
TP1			E40-3445-15	SOCKET FOR PIN ASSY		
TP2			E23-0136-05	TERMINAL		
WH2			E31-8202-05	WIRING HARNESS		
LH1			J19-2826-05	HOLDER		
CF1			L72-0716-05	CERAMIC FILTER		
CF2			L72-0715-05	CERAMIC FILTER		
CF3		*	L72-0721-05	CERAMIC FILTER		
L1			L40-4791-31	SMALL FIXED INDUCTOR(4.7UH)		
L2			L40-4791-16	SMALL FIXED INDUCTOR(4.7UH, K)		
L3			L40-5681-17	SMALL FIXED INDUCTOR		
L4 , 5			L40-4791-31	SMALL FIXED INDUCTOR(4.7UH)		
L6			L40-4791-11	SMALL FIXED INDUCTOR		
L7			L40-1011-31	SMALL FIXED INDUCTOR(100UH)		
L8 , 9			L40-4791-31	SMALL FIXED INDUCTOR(4.7UH)		
L14			L40-4791-31	SMALL FIXED INDUCTOR(4.7UH)		
L501			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH, K)		
L502			L40-4791-31	SMALL FIXED INDUCTOR(4.7UH)		
T1			L30-0462-15	FM IFT		
X1			L77-1166-05	CRYSTAL RESONATOR		
X2			L77-2002-05	CRYSTAL RESONATOR(4.3320MHZ)		
X3			L78-0503-05	RESONATOR (4.00MHZ)		
X4			L77-2003-05	CRYSTAL RESONATOR(8.388608MHZ)		
X5			L78-0267-05	RESONATOR (4.19MHZ)		
X11		*	L78-0526-05	RESONATOR		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
H	2D		N30-3005-46	PAN HEAD MACHINE SCREW		
R	2D		N83-3006-45	PAN HEAD TAPTITE SCREW		
S	2D		N83-3008-46	PAN HEAD TAPTITE SCREW		
R1 -4			RK73FB2A223J	CHIP R 22K J 1/10W		
R5 ,6			RK73FB2A183J	CHIP R 18K J 1/10W		
R7			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R8			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R9 ,10			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R11 ,12			RK73FB2A104J	CHIP R 100K J 1/10W		
R13			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R14			RK73FB2A431J	CHIP R 430 J 1/10W		
R15			RK73FB2A330J	CHIP R 33 J 1/10W		
R16			RK73FB2A271J	CHIP R 270 J 1/10W		
R17 ,18			RK73FB2A331J	CHIP R 330 J 1/10W		
R19 -21			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R22 ,23			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R24 -26			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R27			RK73FB2A331J	CHIP R 330 J 1/10W		
R28			RK73FB2A183J	CHIP R 18K J 1/10W		
R29			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R30 ,31			RK73FB2A103J	CHIP R 10K J 1/10W		
R32 ,33			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R34			RK73EB2B100J	CHIP R 10 J 1/8W		
R35 ,36			RK73FB2A752J	CHIP R 7.5K J 1/10W		
R37 ,38			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R39			RK73FB2A912J	CHIP R 9.1K J 1/10W		
R40			RK73FB2A223J	CHIP R 22K J 1/10W		
R41			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R42			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R43			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R44			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R45			RK73FB2A331J	CHIP R 330 J 1/10W		
R47			RK73FB2A432J	CHIP R 4.3K J 1/10W		
R48			RK73FB2A153J	CHIP R 15K J 1/10W		
R50			RK73FB2A113J	CHIP R 11K J 1/10W		
R51			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R52			RK73FB2A223J	CHIP R 22K J 1/10W		
R54			RK73FB2A470J	CHIP R 47 J 1/10W		
R55			RK73FB2A331J	CHIP R 330 J 1/10W		
R56			RK73FB2A221J	CHIP R 220 J 1/10W		
R57 ,58			R92-2030-05	CHIP R 2.2K D 1/10W		
R59 ,60			R92-2034-05	CHIP R 10K D 1/10W		
R61 ,62			RK73FB2A103J	CHIP R 10K J 1/10W		
R63			RK73FB2A223J	CHIP R 22K J 1/10W		
R64			RK73FB2A104J	CHIP R 100K J 1/10W		
R65			RK73FB2A100J	CHIP R 10 J 1/10W		
R66			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R67			RK73FB2A103J	CHIP R 10K J 1/10W		
R68			RK73FB2A223J	CHIP R 22K J 1/10W		
R69			RK73FB2A473J	CHIP R 47K J 1/10W		
R70 ,71			RK73FB2A223J	CHIP R 22K J 1/10W		
R72			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R73			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R74 ,75			RK73FB2A103J	CHIP R 10K J 1/10W		

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R76			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R77			RK73FB2A473J	CHIP R 47K J 1/10W		
R78			RK73FB2A303J	CHIP R 30K J 1/10W		
R79			RK73FB2A823J	CHIP R 82K J 1/10W		
R80			RK73EB2B101J	CHIP R 100 J 1/8W		
R81, 82			RK73FB2A223J	CHIP R 22K J 1/10W		
R83			RK73FB2A224J	CHIP R 220K J 1/10W		
R84			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R85			RK73FB2A304J	CHIP R 300K J 1/10W		
R86			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R87			RK73FB2A473J	CHIP R 47K J 1/10W		
R88			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R89			RK73FB2A100J	CHIP R 10 J 1/10W		
R90, 91			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R95			RS14DB3D330J	FL-PROOF RS 33 J 2W		
R96			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R97			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R98 -106			RK73FB2A104J	CHIP R 100K J 1/10W		
R107			R92-2117-05	METAL FILM RESISTOR		
R108			R92-2033-05	CHIP RD R 5.1K D 1/10W		
R109			RK73FB2A101J	CHIP R 100 J 1/10W		
R110			RK73FB2A181J	CHIP R 180 J 1/10W		
R111			R92-2104-05	CHIP R 2.2 J 1W		
R112			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R113			R92-2104-05	CHIP R 2.2 J 1W		
R114, 115			RK73FB2A103J	CHIP R 10K J 1/10W		
R116			RK73FB2A471J	CHIP R 470 J 1/10W		
R117-119			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R147			RK73FB2A123J	CHIP R 12K J 1/10W		
R148-150			RK73FB2A103J	CHIP R 10K J 1/10W		
R151-155			RK73FB2A104J	CHIP R 100K J 1/10W		
R156, 157			RK73FB2A473J	CHIP R 47K J 1/10W		
R158			RK73FB2A103J	CHIP R 10K J 1/10W		
R159-166			RK73FB2A101J	CHIP R 100 J 1/10W		
R167			RK73EB2B181J	CHIP R 180 J 1/8W		
R168			RK73FB2A103J	CHIP R 10K J 1/10W		
R169			RK73FB2A223J	CHIP R 22K J 1/10W		
R170			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R171			R92-0365-05	CHIP R 1K J 1/2W		
R172			RK73EB2B103J	CHIP R 10K J 1/8W		
R173-176			RK73FB2A104J	CHIP R 100K J 1/10W		
R177, 178			RK73FB2A134J	CHIP R 130K J 1/10W		
R179			RK73FB2A103J	CHIP R 10K J 1/10W		
R180			RK73FB2A431J	CHIP R 430 J 1/10W		
R181, 182			RK73FB2A471J	CHIP R 470 J 1/10W		
R183, 184			R92-0686-05	CHIP R 33 J 1/2W		
R185, 186			RK73FB2A103J	CHIP R 10K J 1/10W		
R187, 188			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R189			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R191			RK73FB2A104J	CHIP R 100K J 1/10W		
R193			RK73FB2A104J	CHIP R 100K J 1/10W		
R198, 199			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R200-202			RK73FB2A103J	CHIP R 10K J 1/10W		
R203			RK73FB2A104J	CHIP R 100K J 1/10W		
R204			RK73FB2A223J	CHIP R 22K J 1/10W		

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SYNTHESIZER UNIT (X14-5002-70)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
R205			RK73FB2A103J	CHIP R 10K J 1/10W		
R206, 207			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R208			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R209-211			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R212-215			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R216			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R217, 218			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R219			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R220, 221			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R222			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R223-227			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R228			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R229			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R230-234			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R235-238			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R239-255			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R256			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R257, 258			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R259			RK73FB2A103J	CHIP R 10K J 1/10W		
R260			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R261			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R262			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R263			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R264-271			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R272			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R273-275			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R276			RK73EB2B272J	CHIP R 2.7K J 1/8W		
R277, 278			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R279-284			RK73FB2A104J	CHIP R 100K J 1/10W		
R286			RK73FB2A104J	CHIP R 100K J 1/10W		
R288			RK73FB2A473J	CHIP R 47K J 1/10W		
R289			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R290			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R291			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R292			RK73EB2B220J	CHIP R 22 J 1/8W		
R293-295			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R296			RK73EB2B333J	CHIP R 33K J 1/8W		
R297			RK73EB2B222J	CHIP R 2.2K J 1/8W		
R299-307			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R308-310			RK73EB2B222J	CHIP R 2.2K J 1/8W		
R311-316			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R317			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R318			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R319-327			RK73FB2A104J	CHIP R 100K J 1/10W		
R329			RK73FB2A512J	CHIP R 5.1K J 1/10W		
R331			RK73FB2A471J	CHIP R 470 J 1/10W		
R332			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R350			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R376			RK73FB2A104J	CHIP R 100K J 1/10W		
R377			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R378			RK73FB2A104J	CHIP R 100K J 1/10W		
R501			RK73FB2A391J	CHIP R 390 J 1/10W		
R502			RK73FB2A225J	CHIP R 2.2M J 1/10W		
R505, 506			RK73FB2A183J	CHIP R 18K J 1/10W		
R507			RK73FB2A511J	CHIP R 510 J 1/10W		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
R508			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R509			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R510			RK73FB2A563J	CHIP R 56K J 1/10W		
R511, 512			RK73FB2A103J	CHIP R 10K J 1/10W		
R513			RK73FB2A100J	CHIP R 10 J 1/10W		
R515			RK73FB2A823J	CHIP R 82K J 1/10W		
R516			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R517			RK73FB2A334J	CHIP R 330K J 1/10W		
R518			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R519			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R520			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R521			RK73FB2A683J	CHIP R 68K J 1/10W		
R522			RK73FB2A223J	CHIP R 22K J 1/10W		
R523			RK73FB2A242J	CHIP R 2.4K J 1/10W		
R524			RK73FB2A224J	CHIP R 220K J 1/10W		
R525, 526			RK73FB2A104J	CHIP R 100K J 1/10W		
R527			RK73FB2A823J	CHIP R 82K J 1/10W		
R528			RK73FB2A274J	CHIP R 270K J 1/10W		
VR1			R12-0606-05	TRIMMING POT.(330)		
VR2 , 3			R12-3685-05	TRIMMING POT.(10K)		
VR11			R12-3685-05	TRIMMING POT.(10K)		
VR12			R12-3103-05	TRIM POT. 47K		
VR13			R12-3100-05	TRIMMING POT.(10K)		
VR14			R12-3101-05	TRIMMING POT.(22K)		
VR15			R12-3685-05	TRIMMING POT.(10K)		
W11			R92-2052-05	CHIP R 0 J 1/10W		
W45			R92-2052-05	CHIP R 0 J 1/10W		
S1	2D		S40-1140-05	PUSH SWITCH (TPC)		
S2	2D		S40-1139-05	PUSH SWITCH (TDF)		
D1 , 2			MA8068-M	ZENER DIODE		
D3			MA110	DIODE		
D3			1SS355	DIODE		
D4			DAP202K	DIODE		
D5			DAN202K	DIODE		
D6			DAP202K	DIODE		
D7			DA204K	DIODE		
D8 -11			MA110	DIODE		
D8 -11			1SS355	DIODE		
D12			MA8091-M	ZENER DIODE		
D13			MA8056-M	ZENER DIODE		
D14 , 15			MA110	DIODE		
D14 , 15			1SS355	DIODE		
D16			MA8110-L	ZENER DIODE		
D17			MA8051-M	ZENER DIODE		
D18			DA204K	DIODE		
D19 -22			MA110	DIODE		
D19 -22			1SS355	DIODE		
D24			DAN202K	DIODE		
D25			DAP202K	DIODE		
D26 -28			MA110	DIODE		
D26 -28			1SS355	DIODE		
D29			ERA15-01	DIODE		
D30			MA8062-M	ZENER DIODE		
D31			MA8120-M	ZENER DIODE		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
D32			MA110	DIODE		
D32			1SS355	DIODE		
D33			SD184-1	DIODE		
D34 -39			MA110	DIODE		
D34 -39			1SS355	DIODE		
D40			MA8062-M	ZENER DIODE		
D49			DA204K	DIODE		
D501			MA110	DIODE		
D501			1SS355	DIODE		
IC1			LC7218M	IC(PLL FREQUENCY SYNTHESIZER)		
IC2		*	TC4W66F	IC		
IC3			NJM5532MD	IC(OP AMP)		
IC4			NJM4565MD	IC(OP AMP X2)		
IC5		*	SAA6579T	IC		
IC6			LC6543H-4600	IC		
IC7			CUSTOM IC		
IC8			TA7291P	IC(MOTOR DRIVER)		
IC9		*	LC3564QM-10	IC		
IC9		*	LH5168H1	IC		
IC10			TC74HC573AF	IC(LATCH)		
IC11			M5237ML	IC(VOLTAGE REGULATOR)		
IC12		*	PST572HMT	IC		
IC15			SN74HC367ANS	IC		
IC16		*	M38067M8D094FP	IC		
IC17			75004GB-864-3B4	IC		
IC51		*	KKC04	CUSTOM IC		
IC52		*	TA75S393F	IC		
Q1 ,2			2SC2412K	TRANSISTOR		
Q3 ,4			2SC2413K	TRANSISTOR		
Q5			DTA124EK	DIGITAL TRANSISTOR		
Q5			XDA124EK	TRANSISTOR		
Q6			DTC124EK	DIGITAL TRANSISTOR		
Q6			XDC124EK	TRANSISTOR		
Q7			DTA144EK	DIGITAL TRANSISTOR		
Q8 ,9			2SA1428	TRANSISTOR		
Q10			2SK536	FET		
Q12			DTC144EK	DIGITAL TRANSISTOR		
Q12			XDC144EK	TRANSISTOR		
Q13			2SA1037K	TRANSISTOR		
Q14			2SK536	FET		
Q15 -17			2SC2412K	TRANSISTOR		
Q18			2SA1037K	TRANSISTOR		
Q19			2SC2412K	TRANSISTOR		
Q20			DTC144EK	DIGITAL TRANSISTOR		
Q20			XDC144EK	TRANSISTOR		
Q21			DTA144EK	DIGITAL TRANSISTOR		
Q22 -24			DTC144EK	DIGITAL TRANSISTOR		
Q22 -24			XDC144EK	TRANSISTOR		
Q25			DTA124EK	DIGITAL TRANSISTOR		
Q25			XDA124EK	TRANSISTOR		
Q26			2SC2412K	TRANSISTOR		
Q27			DTC144EK	DIGITAL TRANSISTOR		
Q27			XDC144EK	TRANSISTOR		
Q28			DTB123YK	DIGITAL TRANSISTOR		
Q29			2SC2412K	TRANSISTOR		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
Q30			2SA1408(Q)	TRANSISTOR		
Q31 ,32			DTC124EK	DIGITAL TRANSISTOR		
Q31 ,32			XDC124EK	TRANSISTOR		
Q33			2SB1370F8	TRANSISTOR		
Q34			DTA114EK	DIGITAL TRANSISTOR		
Q35			2SB1370F8	TRANSISTOR		
Q36			2SC2412K	TRANSISTOR		
Q37			DTA114EK	DIGITAL TRANSISTOR		
Q38			DTC144EK	DIGITAL TRANSISTOR		
Q38			XDC144EK	TRANSISTOR		
Q39			2SB1370F8	TRANSISTOR		
Q40			2SC2412K	TRANSISTOR		
Q41			DTB123YK	DIGITAL TRANSISTOR		
Q42			DTC144EK	DIGITAL TRANSISTOR		
Q42			XDC144EK	TRANSISTOR		
Q43			2SA1036K	TRANSISTOR		
Q44			2SC2412K	TRANSISTOR		
Q45 -47			2SA1037K	TRANSISTOR		
Q51			DTC144EK	DIGITAL TRANSISTOR		
Q51			XDC144EK	TRANSISTOR		
Q52 -55			DTA124EK	DIGITAL TRANSISTOR		
Q52 -55			XDA124EK	TRANSISTOR		
Q56			DTC124EK	DIGITAL TRANSISTOR		
Q56			XDC124EK	TRANSISTOR		
Q57			DTC144EK	DIGITAL TRANSISTOR		
Q57			XDC144EK	TRANSISTOR		
Q58			2SC2412K	TRANSISTOR		
Q59			2SA1037K	TRANSISTOR		
Q60			DTC124EK	DIGITAL TRANSISTOR		
Q60			XDC124EK	TRANSISTOR		
Q61			DTA124EK	DIGITAL TRANSISTOR		
Q61			XDA124EK	TRANSISTOR		
Q62			2SA1428	TRANSISTOR		
Q63			DTC114EK	DIGITAL TRANSISTOR		
Q64 ,65			2SC2412K	TRANSISTOR		
Q66 ,67			2SA1428	TRANSISTOR		
Q68 ,69			DTD123YK	DIGITAL TRANSISTOR		
Q70 ,71			DTC144EK	DIGITAL TRANSISTOR		
Q70 ,71			XDC144EK	TRANSISTOR		
Q72			DTA144EK	DIGITAL TRANSISTOR		
Q73			2SC2411K	TRANSISTOR		
Q74			DTA144EK	DIGITAL TRANSISTOR		
Q75			DTC124EK	DIGITAL TRANSISTOR		
Q75			XDC124EK	TRANSISTOR		
Q76			DTA144EK	DIGITAL TRANSISTOR		
Q77			DTC144EK	DIGITAL TRANSISTOR		
Q77			XDC144EK	TRANSISTOR		
Q78			DTC124EK	DIGITAL TRANSISTOR		
Q78			XDC124EK	TRANSISTOR		
Q79			2SC2412K	TRANSISTOR		
Q80			2SC2411K	TRANSISTOR		
Q502			DTA144EK	DIGITAL TRANSISTOR		
Q503			2SC2412K	TRANSISTOR		
Q505			2SC2412K	TRANSISTOR		

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TU1	1D	*	W02-1398-05	FM/AM FRONT-END		
SWITCH UNIT (X25-7042-70)						
294	1E		B11-0850-04	OPTICAL DIFFUSER		
295	2E		B19-0936-04	LIGHTING BOARD		
D1 -13			B30-1349-05	LED		
LCD1	2E	*	B38-0587-05	LIQUID CRYSTAL		
PL1			B30-1306-05	LAMP (5.5V .125A)		
PL2 ,3			B30-1305-05	LAMP (5.5V .125A)		
PL4			B30-1306-05	LAMP (5.5V .125A)		
C1			CK73EB1H103K	CHIP C 0.01UF K		
C2			CK73EB1H681K	CHIP C 680PF K		
C3			CK73EB1H103K	CHIP C 0.01UF K		
C4			CK73EB1H681K	CHIP C 680PF K		
C5 ,6			CC73FCH1H220J	CHIP C 22PF J		
C7			C92-0005-05	ELECTRO 2.2UF 6.3WV		
C8			C92-0509-05	TANTAL 10UF 6.3WV		
C9			C92-0005-05	ELECTRO 2.2UF 6.3WV		
C10			C92-0004-05	ELECTRO 1.0UF 16WV		
296	2E		E29-1399-04	CONDUCTIVE RUBBER		
CN1			B59-0809-05	RECTANGULAR PLUG		
297	2E		J19-4492-13	HOLDER		
X1			L78-0505-05	RESONATOR		
R1 -4			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R5			RK73EB2B331J	CHIP R 330 J 1/8W		
R6 ,7			RK73EB2B471J	CHIP R 470 J 1/8W		
R8 ,9			RK73EB2B513J	CHIP R 51K J 1/8W		
R10 ,11			RK73FB2A104J	CHIP R 100K J 1/10W		
R12			RK73EB2B104J	CHIP R 100K J 1/8W		
R13 ,14			RK73FB2A104J	CHIP R 100K J 1/10W		
R15 -19			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R20 ,21			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R22 -24			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R25			RK73EB2B103J	CHIP R 10K J 1/8W		
R26			RK73FB2A103J	CHIP R 10K J 1/10W		
R27			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R28			RK73FB2A101J	CHIP R 100 J 1/10W		
R29			RK73EB2B472J	CHIP R 4.7K J 1/8W		
R30			RK73EB2B471J	CHIP R 470 J 1/8W		
R31 -33			RK73EB2B331J	CHIP R 330 J 1/8W		
R34			RK73EB2B471J	CHIP R 470 J 1/8W		
R35			RK73EB2B331J	CHIP R 330 J 1/8W		
R36			RK73EB2B471J	CHIP R 470 J 1/8W		
R39			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R40 -42			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R43			RK73FB2A102J	CHIP R 1.0K J 1/10W		
S1 ,2			S40-1601-15	PUSH SWITCH		
S3 ,4			S40-1606-05	PUSH SWITCH		
S5 -10			S40-1601-15	PUSH SWITCH		
S11			S40-1606-05	PUSH SWITCH		
S13 -21			S40-1606-05	PUSH SWITCH		
S22 -25			S40-1601-15	PUSH SWITCH		

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SWITCH UNIT (X25-7042-70)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
S26		*	S70-0814-05	TACT SWITCH		
D14 -22			MA8062-M	ZENER DIODE		
D24 -28			MA8062-M	ZENER DIODE		
IC1			75004GB-863-3B4	IC		
IC2			PST572DMT	IC(SYSTEM RESET)		
IC3			RS-21	IC		
IC4 ,5			LC7582E	IC(LCD DRIVER)		
Q1			DTA143XK	DIGITAL TRANSISTOR		
Q2			DTC144EK	DIGITAL TRANSISTOR		
Q2			XDC144EK	TRANSISTOR		
DAUGHTER UNIT (X89-2002-70)						
C1			CK73EB1H104K	CHIP C 0.10UF K		
C2			CK73EB1H683K	CHIP C 0.068UF K		
C3			C90-2598-05	ELECTRO 3.3UF 25WV		
C4 -6			CK73FB1H223KTA	CHIP C 0.022UF K		
C7			CE04DW1C100M	ELECTRO 10UF 16WV		
C8 ,9			CK73FB1E473KTA	CHIP C 0.047UF K		
C10 ,11			CK73FB1H223KTA	CHIP C 0.022UF K		
C12			CE04DW1A220M	ELECTRO 22UF 10WV		
C13 ,14			CE04DW1E4R7M	ELECTRO 4.7UF 25WV		
C15 ,16			CK73FB1H822K	CHIP C 8200PF K		
C17			CC73FSL1H101J	CHIP C 100PF J		
C18			CK73FB1H221K	CHIP C 220PF K		
C19 ,20			CE04DW1A101M	ELECTRO 100UF 10WV		
C21 ,22			C93-0025-05	CERAMIC 0.22UF K		
C23 ,24			CE04DW1A470M	ELECTRO 47UF 10WV		
C25 ,26			CK73FB1H223KTA	CHIP C 0.022UF K		
C27			C90-2673-05	ELECTRO 220UF 10WV		
C28			C90-2530-05	ELECTRO 47UF 16WV		
C29 ,30			CK73FB1H223KTA	CHIP C 0.022UF K		
C31 ,32			C90-2530-05	ELECTRO 47UF 16WV		
C33 ,34			CK73FB1H223KTA	CHIP C 0.022UF K		
CN1	2D	*	E08-5001-05	RECTANGULAR RECEPTACLE		
CN2			E40-9199-05	PIN ASSY		
CN3		*	E40-9235-05	PIN ASSY		
CN4		*	E40-9236-05	PIN ASSY		
CN5		*	E40-9095-05	SOCKET FOR PIN ASSY		
WH1		*	E39-0012-05	WIRING HARNESS		
L1			L40-1001-16	SMALL FIXED INDUCTOR(10UH,K)		
L2 -4			L40-4701-12	SMALL FIXED INDUCTOR		
T	2D		N80-2005-45	PAN HEAD TAPTITE SCREW		
R1			R92-0366-05	CHIP R 560 J 1W		
R2			RK73FB2A223J	CHIP R 22K J 1/10W		
R3			R92-0365-05	CHIP R 1K J 1/2W		
R4			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R5			RK73FB2A103J	CHIP R 10K J 1/10W		
R7			RK73FB2A224J	CHIP R 220K J 1/10W		
R8			RK73FB2A331J	CHIP R 330 J 1/10W		
R9 ,10			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R11 -14			RS14KB3D121J	FL-PROOF RS 120 J 2W		
R15			RK73FB2A331J	CHIP R 330 J 1/10W		

E : Europe W : Without Europe P : Canada X : Australia

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⚠ indicates safety critical components

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

DAUGHTER UNIT (X89-2002-70)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
R16			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R17			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R18			RK73FB2A103J	CHIP R 10K J 1/10W		
R19 ,20			RK73FB2A152J	CHIP R 1.5K J 1/10W		
R21 ,22			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R23 ,24			RK73FB2A333J	CHIP R 33K J 1/10W		
R25			RK73FB2A473J	CHIP R 47K J 1/10W		
R26			RK73FB2A223J	CHIP R 22K J 1/10W		
R27 ,28			RK73FB2A473J	CHIP R 47K J 1/10W		
R29 -32			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R33			RK73FB2A683J	CHIP R 68K J 1/10W		
R34			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R36 ,37			RK73FB2A103J	CHIP R 10K J 1/10W		
D1 -3			ERA15-01	DIODE		
D5			MA110	DIODE		
D5			1SS355	DIODE		
D6			ERA15-01	DIODE		
D7			DAP202K	DIODE		
D8			DAN202K	DIODE		
D9			DA204K	DIODE		
IC1 ,2			NJM4565D	IC(OP AMP X2)		
IC3			TA79L005P	IC(VOLTAGE REGULATOR/ -5V)		
IC4			TA78L005AP	IC(VOLTAGE REGULATOR/ +5V)		
Q1			DTA124EK	DIGITAL TRANSISTOR		
Q1			XDA124EK	TRANSISTOR		
Q2			2SA1037K	TRANSISTOR		
Q3			2SB1277	TRANSISTOR		
Q4			DTC114EK	DIGITAL TRANSISTOR		
Q5			2SD1266BD	TRANSISTOR		
Q6			2SC2412K	TRANSISTOR		
Q7			2SD1266BD	TRANSISTOR		
Q8 ,9			2SC2412K	TRANSISTOR		
DD1			W02-1335-15	ELECTRIC CIRCUIT MODULE		
MECHANISM ASS'Y (X92-1710-09)						
3	2B		A11-0801-52	SUB CHASSIS CALKING ASSY		
5	1A, 2A		A11-0858-04	SUB CHASSIS CALKING ASSY		
7	2A		B09-0504-24	CAP		
8	3A		D01-0601-13	FLYWHEEL ASSY		
14	1A		D10-2505-13	ARM ASSY		
16	1B		D10-2507-23	ARM ASSY		
21	1B		D10-2512-13	ARM		
23	2A		D10-2514-13	ARM		
24	3A		D10-2515-24	ARM ASSY		
26	3B		D10-2517-53	LEVER		
27	2B		D10-2518-33	LEVER		
28	1B		D10-2519-04	ARM ASSY		
30	1B		D10-2521-04	LEVER		
31	2A		D13-1001-04	GEAR ASSY		
34	3A		D13-1004-24	GEAR ASSY		
37	2B		D13-1007-24	GEAR		
38	1B		D13-1008-54	GEAR ASSY		
40	1B		D13-1010-14	GEAR		

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PARTS LIST

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Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

MECHANISM ASS'Y (X92-1710-09)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
41	1B		D13-1011-04	GEAR		
42	1B		D13-1012-04	GEAR		
43	1B		D13-1013-43	GEAR		
44	3A		D13-1015-24	GEAR		
45	2B		D13-1016-23	GEAR		
46	1B		D14-0601-13	PINCH ROLLER ASSY		
48	1A		D14-0603-13	PINCH ROLLER ASSY		
49	2B		D14-0604-04	ROLLER		
50	3B		D14-0605-04	ROLLER		
53	2A		D15-0901-14	PULLEY		
54	3B		D15-0902-34	PULLEY		
55	3A		D16-0601-04	BELT		
72	2A		D21-2018-14	SHAFT ASSY		
73	3B		F10-1716-24	SHIELDING PLATE		
80	2A		G01-2502-14	COMPRESSION SPRING		
83	3A		G01-2505-24	EXTENSION SPRING		
84	1B		G01-2506-14	EXTENSION SPRING		
85	2A		G01-2507-14	TORSION COIL SPRING		
86	2A		G01-2508-24	TORSION COIL SPRING		
87	1B		G01-2509-14	TORSION COIL SPRING		
88	2B		G01-2510-24	TORSION COIL SPRING		
89	1B		G01-2511-24	EXTENSION SPRING		
91	1A		G09-2001-24	FORMED WIRE		
92	1B		G09-2002-24	FORMED WIRE		
103	2B		J19-4452-03	BRACKET		
105	1A		J19-4417-24	HOLDER ASSY		
B	2A		N39-1770-46	PAN HEAD MACHIN SCREW		
C	1A		N09-4005-05	MACHINE SCREW (M2)		
D	2B		N09-4006-15	MACHINE SCREW (M1.7)		
E	1A		N09-4061-05	MACHINE SCREW (M2X 4)		
F	2B		N38-2020-46	PAN HEAD MACHIN SCREW		
G	3A		N39-2022-46	PAN HEAD MACHIN SCREW		
H	1B, 2B		N35-2003-46	BINDING HEAD MACHINE SCREW		
J	2A, 2B		N86-2004-46	BINDING HEAD TAPTITE SCREW		
K	2A, 3B		N19-2003-04	FLAT WASHER		
L	1B, 2A		N19-2023-04	FLAT WASHER		
M	3B		N19-2005-04	FLAT WASHER		
N	2A		N19-2006-04	FLAT WASHER		
P	2B		N19-2008-04	FLAT WASHER		
Q	2A, 3A		N19-0373-04	FLAT WASHER		
S	2A		N29-0208-04	RETAINING RING (3)		
T	1B		N29-0205-04	RETAINING RING (1.5)		
U	3A		N29-0501-05	RETAINING RING		
W	1A		N19-1096-04	FLAT WASHER		
HD1	1A		T31-0213-05	PLAYBACK HEAD		
M1	2A		T42-0702-25	DC MOTOR		
M2	2B		T42-0704-15	DC MOTOR		

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MARKING OF CHIP TRANSISTORS (SMT)
(DTAxxxxK, DTCxxxxK, 2SxxxxxK)

SMT (PNP)			
形 名/Parts No.	標 印/Mark	形 名/Parts No.	標 印/Mark
DTA114EK	<u>16</u>	DTA114YK	<u>54</u>
DTA124EK	<u>15</u>	DTA143TK	<u>93</u>
DTA114TK	<u>94</u>	DTA114EK	<u>14</u>
DTA144WK	<u>76</u>	DTA143EK	<u>13</u>
DTA143XK	<u>33</u>	DTA124XK	<u>35</u>
DTA124TK	<u>95</u>	DTA144TK	<u>96</u>
DTA123EK	<u>12</u>	DTA123JK	<u>E32</u>
DTA143ZK	<u>E13</u>	DTA113JK	<u>E11</u>
DTA123YK	<u>52</u>	DTA114WK	<u>74</u>
DTA115EK	<u>19</u>	DTA115TK	<u>99</u>
DTA125TK	<u>9A</u>	DTA114GK	<u>K14</u>
DTA115GK	<u>K19</u>	DTA124GK	<u>K15</u>
DTA144GK	<u>K12</u>		

SMT (NPN)			
形 名/Parts No.	標 印/Mark	形 名/Parts No.	標 印/Mark
DTC144EK	<u>26</u>	DTC114YK	<u>64</u>
DTC124EK	<u>25</u>	DTC143TK	<u>03</u>
DTC114TK	<u>04</u>	DTC114EK	<u>24</u>
DTC144WK	<u>86</u>	DTC143EK	<u>23</u>
DTC143XK	<u>43</u>	DTC124XK	<u>45</u>
DTC124TK	<u>05</u>	DTC144TK	<u>06</u>
DTC123EK	<u>22</u>	DTC123JK	<u>E42</u>
DTC143ZK	<u>E23</u>	DTC113ZK	<u>E21</u>
DTC123YK	<u>62</u>	DTC114WK	<u>84</u>
DTC115EK	<u>29</u>	DTC115TK	<u>09</u>
DTC125TK	<u>0A</u>	DTC114GK	<u>K24</u>
DTC115GK	<u>K29</u>	DTC124GK	<u>K25</u>
DTC144GK	<u>K22</u>		

SMT			
形 名/Parts No.	略記号 / Mark	形 名/Parts No.	略記号 / Mark
2SA1036K	<u>H</u>	2SA1037K	<u>F</u>
2SA1037KLN	<u>D</u>	2SA1455K	<u>G</u>
2SA1514K	<u>M</u>	2SB852K	<u>U</u>
2SC2059K	<u>J</u>	2SC2411K	<u>C</u>
2SC2412K	<u>B</u>	2SC2412KLN	<u>L</u>
2SC2413K	<u>A</u>	2SC3082K	<u>S</u>
2SC3722K	<u>I</u>	2SC3802K	<u>AL</u>
2SC3837K	<u>AC</u>	2SC3838K	<u>AD</u>
2SC3839K	<u>AE</u>	2SC3906K	<u>T</u>
2SD1383K	<u>W</u>	2SD1484K	<u>Y</u>
2SD1757K	<u>AA</u>	2SD1781K	<u>AF</u>
2SD1782K	<u>AJ</u>		

MPT			
形 名/Parts No.	略記号 / Mark	形 名/Parts No.	略記号 / Mark
2SB1132	<u>BA</u>	2SB1188	<u>BC</u>
2SB1189	<u>BD</u>	2SD1664	<u>DA</u>
2SD1766	<u>DB</u>	2SD1767	<u>DC</u>
2SD1384	<u>DE</u>		

